# SIMULTANEOUS CABIN AND AMBIENT OZONE MEASUREMENTS ON TWO BOEING 747 AIRPLANES Volume I

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#### INTRODUCTION

Measurements of ozone concentration in the cabins of airline operated Boeing 747SP and 747-100 airliners are tabulated and plotted along with simultaneous measurements of atmospheric ozone concentrations existing outside the aircraft. High concentrations of ozone in the cabins of some jet aircraft are of concern to both flight crews and passengers as well as industry and government organizations. Certain physical discomfort experienced on some flights has been attributed to high levels of ambient ozone entering the cabin from the outside (refs. 1 and 2).

The simultaneous measurements of inside and outside ozone levels are necessary to determine the destruction of ozone in the aircraft pressurization - ventilation systems. This information is useful in the design of cabin ozone removal devices and systems. The relation between in the cabin and outside ozone levels is also required to determine the statistical probabilities of encountering high ozone levels in the cabin from available climatological data on atmospheric ozone.

The tabulated and plotted ozone data contained in this report permit an evaluation of the cabin ozone problem in terms of the ozone levels in the cabin of these type aircraft experienced during routine operations on certain flight routes. These data also contribute to the statistical data base of atmospheric ozone levels during several months in the peak ozone season.

Ozone measurements were taken by an airborne atmospheric sampling system as part of the NASA Global Atmospheric Sampling Program (GASP). The NASA instrumentation was installed on the Boeing 747 airliners to measure constituents of the upper atmosphere, including ozone (ref. 3). Equipment installation, maintenance, and service of the GASP instrumentation has been carried out by the United Airlines Engineering Group under contract to NASA.

Selected aircraft cabin and ambient (atmospheric) ozone measurements for two GASP equipped 747 airliners have been reported by NASA (refs. 4-8). The GASP equipped 747-100 airliner (N4711U) operated by United

Airlines obtained ozone data over the contiguous United States and to Hawaii. The 747SP aircraft (N533PA) of Pan American World Airways acquired data on many international routes.

This report presents all the cabin ozone data collected from March through December 1977. Data that has been collected after this period will be published in this same format as it is processed.

#### INSTRUMENTATION

Description of Ozone Measurement System

Instrument Type - Ozone was measured on both aircraft by commercially available ultraviolet absorption photometers modified and repackaged to operate in the airborne environment. Readings are continuous, updating every 20 seconds. Range is from 3 to 20,000 ppbv (parts per billion by volume). Operational procedures were set up to insure the integrity of the data. These include in-flight instrument health checks, instrument calibration techniques, measurement of ozone loss in the GASP air sample inlet line and pressurization system, and periodic instrument maintenance.

Modifications to the commercial-type instrument for use in the fully automated GASP system included (1) manual control mode switch replaced with logic circuits activated by the preprogrammed GASP onboard computer. (2) visual display replaced with an output shift register for digital recording of the airborne data, (3) circuits added to provide instrument identifications, and (4) output logic modified to read out a negative zero offset not available in the original instrument.

In-flight Checks and Calibration - In-flight instrument health checks, recorded with the data, monitor the instrument zero, span, and frequencies of the two electronic counters used to measure the ozone concentration. These checks are performed once each hour. Zero gas is provided for the instrument zero by directing the air sample at the proper time through an ozone scrubber in the inlet line.

All flight instruments are calibrated before installation in the aircraft and periodically thereafter using a secondary transfer standard. dard is a laboratory-type ultraviolet photometer which was initially calibrated using a one percent neutral buffered potassium iodide (KI) method. Later in the GASP program, the standard was calibrated at the Jet Propulsion Laboratory (JPL). This calibration is traceable to the JPL five meter UV photometer described in reference 9. The KI calibration was found to be 9 percent higher than the UV photometer calibration. Thus, all published GASP ozone data are 9 percent high compared to the JPL calibrations. This is a systematic difference and can be easily corrected if the KI method is determined incorrect and other methods such as the UV photometer is adopted as the standard.

The reliability of the instruments was determined from flight and ground checks and the laboratory recalibrations following installation in the aircraft. Most component failures could be detected from the instrument output or ground checks. One type of failure (deterioration of the ozone scrubber) was detected only at the time of recalibration. Excluding failures, the stability of the ten flight instruments during one year of operation (seven calibrations per instrument) was within one percent.

A concern in the ozone measurement is the destruction of ozone in the lines from the stainless steel inlet probe to the instrument, and in the sample pump that raises the sample pressure to 1 atm. The lines are Teflon, and the pump is a Teflon coated diaphragm Ozone destruction through the aircraft installed system is measured under conditions simulating operation in flight. An ozone destruct test package was developed by NASA to periodically determine this loss on the aircraft. Initial test data from different systems indicated ozone destruction from 13 to 19 percent. This was later reduced to less than 6 percent with a random error of <sup>†</sup>2 percent using improved materials in the pump. Thus, the random error of the total ozone measuring system was found to be less than 4 percent of reading or 3 ppbv, whichever is greater.

It has been observed that smoke injested into the instrument produces transitory fluctuations in the

readings, either positive or negative. This effect may account for some of the spikes that appear occasionally in the ozone data recorded in the cabin.

A complete description of the ozone measurement system is given in reference 10.

Equipment Installation - Ozone was measured on the two 747 airliners by equipment installed for the NASA Global Atmospheric Sampling Program (GASP) (ref. 3). The air sampling system is completely automated. Unattended operation provides continuous data acquisition during normal passenger service along established airline routes. A second ozone instrument was added to the GASP system to measure ozone in the cabin simultaneously with the outside ozone measurement.

Location of sample air inlets - The points where ozone was measured outside and inside the 747 cabin are shown figures 1 and 2. Air from outside the aircraft was sampled by a special external probe extending beyond the boundary layer near the nose of the air-Air flowed in a 2.54 cm. diameter tube from the probe to the ozone instrument and associated equipment mounted on a special rack below the passenger deck at about station 360. Air from inside the aircraft was sampled at only one point in the cabin. Air was drawn from a 0.62 cm. diameter port about 1.5 m. above the floor in the right outside wall of the staircase to the upper deck (left side of the right isle). A Teflon ring attached to the wall extended the inlet to the port about 0.62 cm. from the wall surface (detail in fig. 2). This minimized drawing air from along the wall surface into the sample since ozone can be destroyed by contact with surfaces. About 6 m. of 0.62 cm. diameter Teflon-coated tubing was used between this port and the ozone analyzer on the GASP rack. The tubing was cleaned and found to cause negligible loss of ozone.

Air sample pressurization - Although unpressurized air is desirable to avoid altering the air constituent being measured, measurements such as ozone need a pressurized air sample to achieve the desired instrument sensitivity. A diaphragm or bellows-type pump was used to increase the low pressure air at altitude to one atmosphere pressure. A pressure regulation

system holds the inlet pressure to the instruments constant at 1-0.007 atm. at altitudes up to 13.78 km with a flow rate of 14 liters/min.

Data Acquisition System - Ozone data (atmospheric and in-cabin) are taken with the existing GASP data acquisition and control system. All major components of this system are airborne units used by many airlines in normal flight data recording systems. The preprogrammed processor for automatic system control is a modified Data Management Unit. This unit also provides certain data acquisition functions. Additional data acquisition is handled by a standard flight data acquisition unit. All data are recorded on a digital cassette recorder which is the same type Digital Aids Recorder (DAR) used by airlines for flight recording. The GASP system is autonomous having dedicated units for all data acquisition and system control.

Instruments are turned on during aircraft preflight. The computer or processor takes over control just prior to takeoff. A standby condition is held until a signal is received by the processor from the altimeter to set up the system for sampling. This was set at 6.1 km (20,000 ft.). A basic 60-minute sampling cycle is constructed by alternating 5-minute air sampling and 5-minute calibration modes. Thus, there are six sample readings and six different calibrations taken each cycle. All data are recorded during a 16-second period at the end of each 5-minute air sampling and calibration mode. The ozone instrument requires only four calibrations during each 1 hour cycle. Thus, ozone measurements are taken every 10 minutes during the first 40 minutes of the cycle and every 5 minutes during the remaining 20 minutes. Before landing, the system is returned to a standby condition. The time, position of the aircraft, altitude, speed and direction are recorded and thus pinpoint each ozone measurement.

Data Reduction Procedure - The tape recorder cassettes are removed from the aircraft about every two weeks. In-flight data on the cassettes are transcribed onto computer compatible tape which is shipped to NASA Lewis Research Center. This tape is initially processed at NASA to provide a direct printout of the flight data, dividing the continuous data record into flight

segments based on flight origin and destination. Further data processing includes the ozone system calibration correction, deletion of questionable and redundant data, and a re-transcription to a final format (refs. 6 and 7).

#### PRESENTATION OF DATA

All GASP data, including the cabin and ambient ozone data presented herein, are available to the public on magnetic computer tape from the National Climatic Center, Federal Building, Asheville, NC 28801. In addition to providing compact storage of a large amount of data, the availability of the data on computer tape facilitates data analysis and alternate presentations which would be awkward if not impossible from the hard copy.

The data tabulated and plotted here are from GASP Tapes VL0009, VL0010, VL0012 and VL0014. These tapes include all data obtained by GASP equipped aircraft N533PA and N4711U from January 3, 1977 through January 3, 1978. Flight routes and dates, instrumentation, data processing procedures, data tape specifications, and selected analysis of the cabin ozone data are reported in refs. 6 and 7.

#### Explanation of Data Tables and Plots

Tabulation and plots of all data - The plots and tables of GASP ozone data are organized chronologically by aircraft in appendixes A and B for the 747SP (N533PA) and 747-100 (N4711U) aircraft respectively. In the plots for each flight, the upper panel gives the altitude (boxes) and latitude (crosses), the center panel gives the ambient (boxes) and cabin (crosses) ozone levels, and the lower panel gives the ratio (cabin divided by ambient). The altitude, ambient ozone, and ratio data are jointed by solid lines and latitude and cabin ozone are joined by segmented lines whenever the time between observations is 10 minutes or less (data are plotted at the multiple of 5 minutes nearest to their actual elapsed time). Data points are not connected if the time interval is greater than ten minutes. For ambient ozone less than 0.1 ppmv, the corresponding ratios are not plotted or tablulated. Each table has a heading where the departure and arrival airports are identified by the standard

three-letter airport code (ref. 11), and the departure date and the aircraft number are given. The remainder of the heading is self-explanatory, although special cases arise: if no ambient ozone values were observed on a flight, then stars are entered for the maximum ambient ozone value and the maximum ratio value is given as zero; if no ambient ozone value greater than 0.1 ppmv was observed, then stars are entered for the maximum ratio value.

In the tables, ETIM is the elapsed time after the time of the first data record on the flight. the cabin ozone amount divided by the ambient ozone If any variable in the tables is missing, its amount. position in the table is left blank. Observations are entered at minimum time intervals of 5 minutes (during the data processing, any observations made less than 5 minutes after the most recent acceptable observation were disregarded). If two or more observations were made during the same GMT minute, they were averaged together and an "A" is entered after the GMT. GMT was missing for an observation, then for all following observations on the flight, the elapsed time between observations was computed using the aircraft speed and the distance travelled between the geographic coordinates of the data points. The GMT of each observation was then estimated by adding the computed elapsed time to the GMT of the previous observation. these cases an "M" is entered in the table after the GMT, unless two or more observations had the same estimated GMT in which case the "A" tag takes precedence.

During the period April 2 through August 6, 1977, 15th stage compressor bleed was used intermittently on N533PA to reduce cabin ozone levels (refs. 4, 5, and 7). The high temperature (340°C - 480°C) associated with this stage dissociates much of the ambient ozone that would be otherwise coming into the cabin using the normal lower temperature compressor bleed. After May 15 the use of 15th stage bleed was coded into the onboard GASP data recording. Whenever the data records indicate bleed was in use a "B" is entered in the tables after the ratio value.

Summary tabulations - A data summary, by flight, for all GASP flights with cabin and/or ambient ozone from January - December, 1977 is given in appendixes C

and D, for aircraft N533PA and N4711U respectively. The parameters presented were selected based on the requirements of reference 2 and include, for each flight, the departure date, route, mean flight level, data time interval, and cabin and ambient ozone data. All ozone levels are expressed as parts per million by volume (ppmv).

Entries appear for all flights from tapes VL0009 (ref. 6), VL0010 and VL0012 (ref. 7), and VL0014 for which cabin and/or ambient ozone data are available. The number of cabin ozone measurements for each flight is given in the column headed ND following the departure date, route, and mean flight level. elapsed time from the first to the last cabin ozone measurement for each flight is given in the TOTAL time An 'M' next to the TOTAL indicates that the observation time was not available for one or more cabin ozone measurements during the flight. Note that since the GASP system does not obtain data at altitudes below FL 195, the TOTAL time here is less than the segment time specified in reference 2. The time during which the cabin ozone level exceeded 0.1 ppmv is given in the 03 > .1 column; and the time during which the cabin ozone level exceeded 0.3 ppmv is given in the 03 > .3 column.

The mean (MEAN) and mean plus 1 standard deviation (M + SD) cabin ozone levels are time-weighted averages over the time period given by TOTAL. The maximum observed cabin ozone levels are also listed. The maximum time-weighted average cabin ozone level during any two hour interval in the flight is given under 2HR. If TOTAL is less than 2 hours, the value appearing in the 2HR column is the flight mean.

Next, the number of data points, time-weighted mean and mean plus 1 standard deviation, and maximum values of ambient ozone data are given for each flight. For measurement periods in which both cabin and ambient ozone data are available, and in which the ambient ozone level is greater than 0.1 ppmv, the ratio of cabin to ambient ozone is calculated. The number of these data points, as well as the mean and standard deviation are given following the ambient ozone data for each flight.

The final column in the Summary Tabulations indicates the compressor bleed/filter status, when available, for aircraft N533PA. The tags in this column identify operational and configuration changes made by the airline in efforts to reduce cabin ozone levels. A "B" in this column for flights after May 12, 1977 indicates that high temperature (15th compressor stage) bleed was used for cabin air during one or more measurement periods in the flight. Because independent documentation on the use of 15th stage bleed is not available for flights prior to May 12th, these are identified by a '?', although 15th stage bleed was used prior to this date. Flights and time intervals in which high temperature bleed was used are generally readily apparent in the flight plots, as shown by a marked decrease in the ratio of cabin to ambient ozone. An 'F' in the final column identifies flights after a charcoal filter system was installed on August 6, 1977. Note that this column applies only to aircraft N533PA (appendix C). There were no air conditioning system modifications or use of high temperature bleed for cabin air on N4711U (appendix D). Further analysis of these data are given in refs. 6 and 7.

Table I summarizes the simultaneous cabin and ambient ozone data for both GASP equipped aircraft. As our purpose here is to consider only those times when ozone may be a problem, only those cases when the ambient ozone amount was above 0.1 ppmv are included in the table. Thus, the statistics in table I generally refer to stratospheric flights. There may be factors other than those listed which influence the retention ratio from flight to flight, or even within a flight, such as load factor or flight duration (ref. 5). A measure of the variability of the retention ratio is given by its standard deviation, which has been included in table I.

#### SUMMARY OF RESULTS

Measurements of ozone concentrations both outside and in the cabin of an airline operated Boeing 747SP and Boeing 747-100 airliner are tabulated and plotted. Tables and the corresponding plots for each flight are arranged chronologically for the two aircraft. Data were taken at five or ten minute intervals by automated

instrumentation used in the NASA Global Atmospheric Sampling Program (GASP). All cabin ozone data obtained by GASP-equipped airliners N533PA and N4711U during 1977 are presented.

#### REFERENCES

- 1. Aircraft Cabin Ozone Contamination, Advanced Notice of Proposed Rulemaking, Federal Register, Vol. 42, Oct. 6, 1977, pp. 54427 54428.
- Ferrarese, J. A.: Airplane Cabine Ozone Contamination Federal Register, Vol. 43, No. 194, Oct. 5, 1978, pp. 46034 46037.
- 3. Perkins, Porter J.; and Gustafsson, Ulf. R. C.: An Automated Atmospheric Sampling System Operating on 747 Airliners. NASA TM X-71790, 1975.
- 4. Perkins, Porter J.; Holdeman, J. D.; and Gauntner, Daniel J.: Aircraft Cabin Ozone Measurements on B 747-100 and B 747SP Aircraft - Correlations with Atmospheric Ozone and Ozone Encounter Statistics. NASA TM 79060, 1978.
- 5. Perkins, Porter J.; Briehl, Daniel: Simultaneous Measurements of Ozone Outside and Inside Cabins of Two B 747 Airliners and a Gates Learjet Business Jet. NASA TM 78983, 1978.
- 6. Holdeman, J. D.; Dudzinski, Thomas J.; Nyland, Ted W.; and Tiefermann, Marvin W.: NASA Global Atmospheric Sampling Program (GASP): Data Report for Tape VL0009. NASA TM 79058, 1978.
- Holdeman, J. D.; Dudzinski, Thomas J.; Tiefermann, Marvin W.; and Nyland, Ted W.: NASA Global Atmospheric Sampling Program (GASP) Data Report for Tapes VL0010 and VL0012. NASA TM 79061, 1979.
- Ozone Contamination in Aircraft Cabins A Workshop held at Ames Research Center Moffett Field, California, July 25-27, 1978. NASA CP 2066, 1978.
- 9. DeMore, W. B.; and Patapoff, M.: Comparison of Ozone Determinations by Ultraviolet Photometry and Gas Phase Titration. Environ. Sci. Technol., Vol. 10, No. 9, Sept. 1976, pp. 897 899.
- 10. Tiefermann, Marvin: The Ozone Measurement System for the NASA Global Air Sampling Program. NASA TP 1451, 1979.

11. Official Airline Guide, International Ed. - published monthly, Rueben H. Donnelley Corp.

TABLE I - CORRELATION BETWEEN SIMULTANEOUS CABIN AND AMBIENT OZONE MEASUREMENTS FROM GASP DATA FOR MARCH THROUGH DECEMBER 1977

Aircraft	Added technique for destroying ozone	ND		AMBIENT nt > .1) SD	Correlation Coefficient
747SP (N533PA)	None	527*	.825	.208	.871
	15th stage compressor bleed	123*	.268	.132	.513
	Modified air recirculation without 15th stage bleed	1995	.552	.191	.813
	Modified air recirculation with 15th stage bleed	972	.211	.109	.415
	Charcoal filter	1093	.061	.089	.297
747-100	None	941	.465	.201	.859

<sup>\*</sup>Data prior to 5/12/77 not used

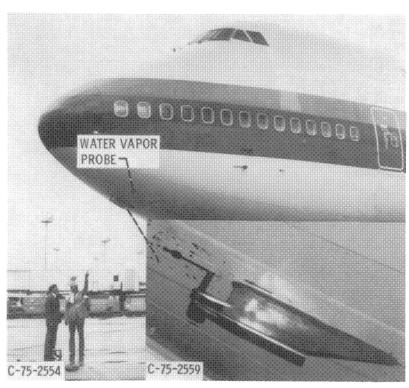
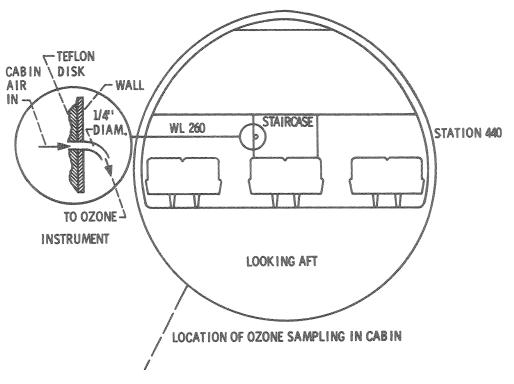


Figure 1. - Air sample inlet probes mounted on 747 airliner equipped for GASP.



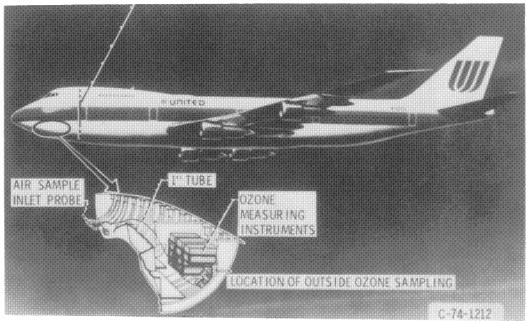


Figure 2. - Ozone measurement locations on B747 airliner.

#### APPENDIX A

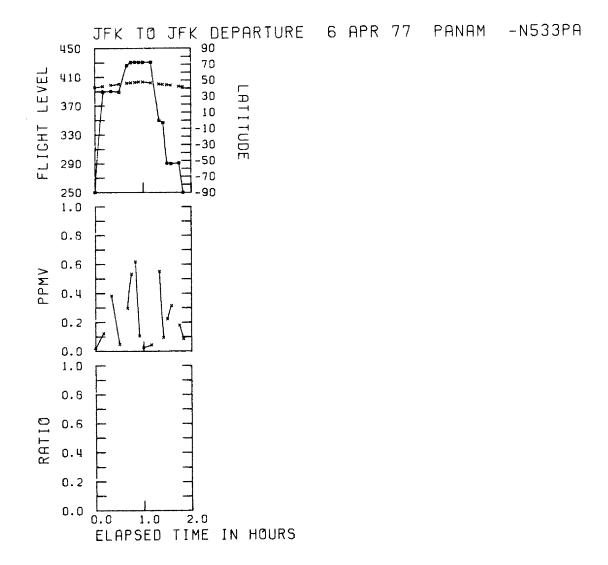
DATA PLOTS AND TABLES OF GASP

OZONE DATA

FOR BOEING 747SP (N533PA)

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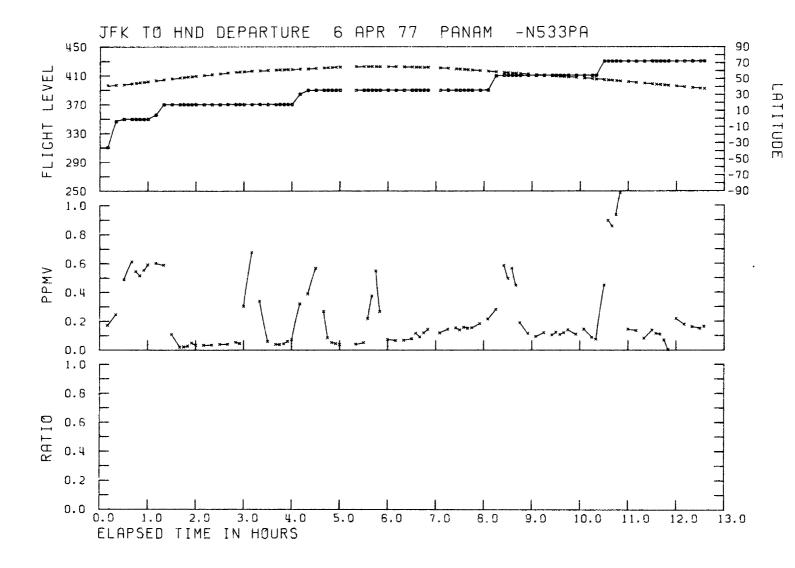
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MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .618 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 16
DATA SOURCE: GASP TAPE VL010, FILE 2

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV)	RATIO	M0/0	A/YR	GMT	ETIM HR:MN	FL	LAT			OZONE (; CABIN	RAT10
4/ 6/77	1323	0:00 2	215	41.14N	73.01W	-29.	.021		4/	6/77	1423	1:00	431	47.94N	77.99W	-43.	.025	
4/ 6/77	1333	0:10 3	390	42.56N	73.32W	-44.	.124		4/	6/77	1433	1:10	431	46.83N	79.02W	-44.	.043	
4/ 6/77	1343	0:20 3	390	44.10N	73.26W	-40.	•384		4/	6/77	1446	1:23	350	45.40N	78.02W	-42.	.551	
4/ 6/77	1353	0:30 3	389	45.44N	73.85W	-42.	.048		4/	6/77	1451A	1:28	347	44.84N	77.24W	-42.	.095	
4/ 6/77	1403	0:40 4	126	46.45N	75.06W	-44.	.297		4/	6/77	1456A	ĺ:JJ	291	44.42N	76.62W	-42.	.223	
4/ 6/77	1408	0:45 4	431	46.93N	75.74W	-44.	•533		4/	6/77	1501	1:38	290	43.79N	76.27W	-41.	.315	
4/ 6/77	1413	0:50 4	31	47.39N	76.47W	-44.	.618		4/	6/77	1511	1:48	291	42.56N	75.58W	-41.	.180	
4/ 6/77	1418	0:55 4	31	47.83N	77.23W	-42.	.106		4/	6/77	1517A	1:54	228	41.87N	75.31W	-36.	.085	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE=1.089 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 98 DATA SOURCE: GASP TAPE VL010, FILE 2

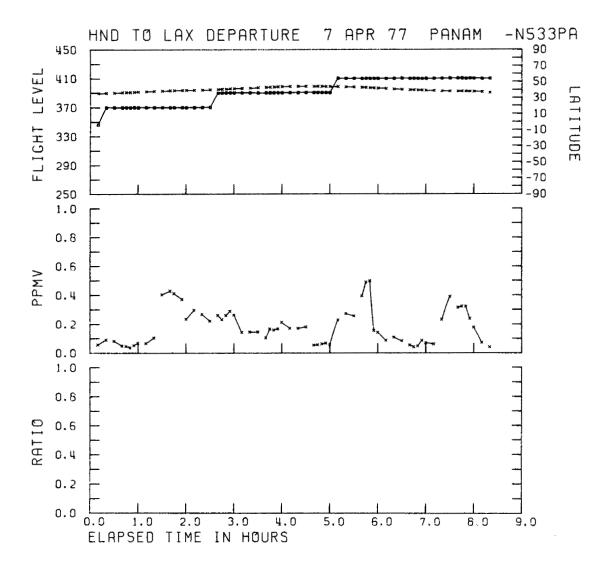
DATA SOURT	C 0	ASE IAI	_ •	2010, 11	LL 2												
MO/DA/YR	GMT	ETIM HR:MN	FĻ	LAT	LONG	TEMP	CABIN AMB.	RATIO	MOZĐAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) CABIN AMB.	RATIO
4/ 6/77	1811	0:10	311	41.84N	75.20W	-43.	.172		4/ 7/17	0011	6:10	390	65.16N	145.16W	-49.	•065	
4/ 6/77				42.19N	76.40W		.240		4/ 7/77		_		65.06N	148.17W		.068	
4/ 6/77				42.95N	77.72W		489		4/ 7/77				64.89N	151.20W		.078	
4/ 6/77				44.13N	78.64W		.613		4/ 7/17				64.79N	152.69W		.116	
4/ 6/77	_			44.74N	79.04W		.544		4/ 7/77				64.67N	154.16W		.090	
4/ 6/77	_			45.36N	79.46W				4/ 7/77		6:45	390	64.53N	155.61W		.119	
4/ 6/77				45.97N	79.88W		•554		4/ 7/77		6:50	390	64.38N	15/.05W		.143	
4/ 6/77				46.58N	80.31W		•591		4/ 7/77	0106	7:05	390	63.80N	161.27W	-52.	.119	
4/ 6/77	1911	1:10	356	47.80N	81.19W	-43.	.602		4/ 7/77	0116	1:15	390	63.18N	163.87w	-53.	.144	
4/ 6/77	1921	1:20	370	48.97N	82.10w	-44.	•588		4/ 7/77	0126	1:25	390	62.52N	160.31W	-52.	.154	
4/ 6/77	1931	1:30	370	50.10N	83.09W	-44.	•10B		4/ 7/17	0131	1:30	390	62.18N	16/.49W	-53.	.139	
4/ 6/77	1941	1:40	370	51.22N	84.19W	-44.	.020		4/ 7/77	0136	7:35	390	61.83N	168.63W	-52.	•158	
4/ 6/77	1946	1:45	370	51.78N	84.77W	-44.	.022		4/ 7/77	0141	1:40	390	61.47N	169.76W	-53.	.151	
4/ 6/77	1951	1:50	370	52.33N	85.35W	-44.	.028		4/ 7/77		7:45	390	61.11N	170.89W	-55.	.154	
4/ 6/77				52.87N	85.94W	-43.	.049		4/ 7/77					173.04W		.183	
4/ 6/77				53.40N	86.55W	-44.	•033		4/ 7/17				59.63N	175.06W		•215	
4/ 6/77				54.45N	87.79W		.033		4/ 7/77					177.01w		.281	
4/ 6/77				55.48N	89.10W		.034		4/ 7/77				28.05W	178.88W		•586	
4/ 6/77				56.47N	90.46W		.039		4/ 7/77		-		57.60N	179.78W		• 495	
4/ 6/77				57.44N	91.91w		. 40		4/ 7/77					179.22L		•566	
4/ 6/77				58.42N	93.4HW		.053		4/ 7/77		4 2			178.20E			
4/ 6/77				58.83N	94.41W				4/ 7/77					177.18E			
P 4/6/77				59.14N	95.51W		.303		4/ 7/77					175.14E			
4/ 0///				59.72N	97.70w				4/ 7/77					173.14E			
4/ 6/77				60.26N	99.99W		•338 046		4/ 7/77				54.54N	171.18E		.121	
4/ 6/77		-	-	60.75N	102.30₩				4/ 7/17					169.21E		•105	
4/ 6/77				61.20N	104.66W				4/ 7/77 4/ 7/77					160.21E 167.23E		.123	
4/ 6/77   4/ 6/77				61.41N 61.60N	105.85W 107.05W				4/ 7/77				52.75N	166.28£			
4/ 6/77				61.78N	107.05W		.060		4/ 7/77				52.39N	165.33E			
4/ 6/77				61.95N	100.24# 109.46W		.071		4/ 7/17				51.63N	163.48E		.109	
4/ 6/77				62.26N	111.85W		.320		4/ 7/77		-			161.71E			
4/ 6/77				62.55N	114.32W		.389		4/ 7/77					159.996		.088	
4/ 6/77				63.17N	116.54W		•566		4/ 7/77					159.16E		.075	
4/ 6/17				63.78N	118.95W		•508		4/ 7/77					15/.55E		• 449	
4/ 6/77				64.07N	120.22W		.084		4/ 7/17					150.77E		.896	
4/ 6/77				64.35N	121.51w		.051		4/ 7/77		_		47.93N	155.98E		.857	
4/ 6/77				64.62N	122.84W		.044		4/ 7/71	_			47.50N	155.24E		.935	
4/ 6/77				64.88N	124.19W		.038		4/ 7/77				47.06N	154.50E			
4/ 6/77				65.40N	129.96W		.040		4/ 7/71				46.16N	153.06E		.145	
4/ 6/77				65.45N	132.90W		.050		4/ 7/77					151.69E		.135	
4/ 6/77				65.45N	134.46W		.218		4/ 7/77				44.34N	150.36E			
4/ 6/77				65.43N	135.98W		.374		4/ 7/17	-				149.08E			
4/ 6/77				65.41N	137.52W		.547		4/ 7/77	-				148.45E			
4/ 6/77				65.36N	139.05w		.∠66		4/ 7/77	0541	11:40	430	42.55N	14/.84E	-53.	.109	
4/ 7/77	0001	6:00	390	05.23N	142.09W	-50.	.073		4/ 7/11	0545	11:45	430	42.1UN	14/.24L	-54.	.070	
											•						

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JFK TO HND (PAGE 2 OF 2) DEPARTURE: 6 APR 77 AIRCRAFT: PANAM -N-33PA

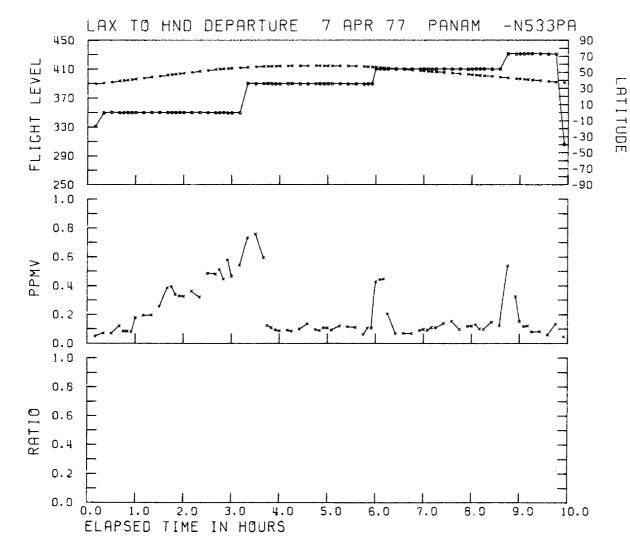
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE=1.089 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 98 DATA SOURCE: GASP TAPE VLOLO, FILE 2

MO/DA/YR GMT ETIM FL LAT HR:MN	(C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(pPMV) RATIO (C) CABIN AMB.
4/ 7/77 0551 11:50 430 41.6 4/ 7/77 0601 12:00 430 40.7 4/ 7/77 0611 12:10 430 39.8	4N 145.49E -56219	4/ 7/77 0621 12:20 430 38.95N 4/ 7/77 0631 12:30 430 38.03N 4/ 7/77 0636 12:35 430 37.60N	142.20E -59150



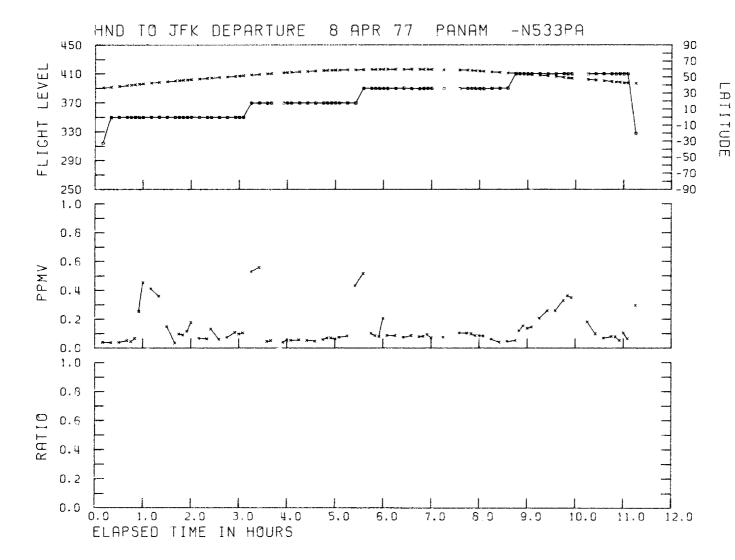
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .499 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 65 DATA SOURCE: GASP TAPE VL010, FILE 2

MOZDAZYE	R GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(PPMV)	RATIO	MO/DA/YR	GMT	HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO
4/ 7/77		0:10	346	35.54N	142.83E	-53.	.057		4/ 7/77	1409	4:20	390	43.99N	166.14W	-64.	•171	
4/ 7/77	1009	0:20	370	35.95N	144.67E	-60.	.091		4/ 7/77	1419	4:30	390	43.99N	164.03W	-67.	.180	
4/ 7/77	1019	0:30	370	36.34N	146.53E	-62.	.083		4/ 7/77	1429	4:40	390	43.94N	161.93W	-67.	.054	
4/ 7/77		0:40	370	36.70N	148.40E	-62.	.050		4/ 7/77	1434	4:45	390	43.91N	160.86w	-67.	.056	
4/ 7/77	1034	0:45	370	36.87N	149.36E	-63•	.047		4/ 7/77	1439	4:50	390	43.86N	159.76W	-67.	.062	
4/ 7/77	_	0:50	370	36.95N	149.81E	-63•	.037		4/ 7/77	1444	4:55	390	43.78N	158.70W	-66.	.068	
4/ 7/77	1044	0:55	370	37.29N	151.27E	-63.	.052		4/ 7/17	1449				157.62W		.058	
4/ 7/77		1:00	370	37.51N	152.25E	-62•	.070		4/ 7/77	1459				155.53W		.227	
4/ 7/77	_	1:10	370	37.94N	154.24E	-61.	.067		4/ 7/77	1509	5:20	410		153.51W		.272	
4/ 7/77		1:20	370	NEE.BE	156.23E	-60.	.104		4/ 7/77	1519				151.50W		.255	
4/ 7/77	1119	1:30	370	38.68N	158.20E	-56.	.403		4/ 7/77	1529				149.49W		.394	
4/ 7/77		1:40	370	38.99N	160.16E	-53.	•428		4/ 7/77	1534				148.52W		.489	
4/ 7/77	1134	1:45	370	39.13N	161.16E	-54.	.412		4/ 7/77	1539				147.55W		499	
4/ 7/77		1:55	370	39.38N	163.21E	-53.	.371		4/ 7/77	1544				146.56W		155	
4/ 7/77		2:00	370	39.49N	164.24E	-53.	.234		4/ 7/77	1549				145.59W		.142	
4/ 7/77		2:10	370	34.69N	166.32E	-53.	· 246		4/ 7/17	1559				143.70W		.087	
4/ 7/77		2:20	370	34.85N	168.43E	-53.	•268		4/ 7/77	1609				141.92W		.108	
4/ 7/77		2:30	370	40.07N	170.55E	-54.	• 222		4/ 7/77	1619	6:30	410	39.87N	140.16W	-46.	.083	
4/ 7/77	1229	2:40	390	40.55N	172.61E	-57.	.260		4/ 7/77	1629				138.29W		.054	
4/ 7/77	1234	2:45	390	40.77N	173.62E	-58.	.231		4/ 7/77	1634				137.36W		.042	
4/ 7/77		2:50	390	40.98N	174.65E	-58.	.260		4/ 7/77	1639				136.44₩		.048	
4/ 7/77		2:55	390	41.19N	175.70E	-59.	.289		4/ 7/77	1644				135.52W		.087	
P 4/ 7/77	1249	3:00	390	41.38N	176.75E	-60.	.263		4/ 7/77	1649	7:00	410	38.85N	134.62W	-48.	.071	
I 4/ 7/77	1259	3:10	390	41.75N	178.92E	-65.	.142		4/ 7/77	1659	7:10	410	38.48N	132.85W	-48.	.062	
4/ 7/77		3:20	390	42.17N	178.94W	-64.	.145		4/ 7/77	1709	7:20	410	38.09N	131.10W	-51.	.233	
4/ 7/77		3:30	390	42.64N	176.87W	-64.	.145		4/ 7/77	1719				129.36W		.390	
4/ 7/77	1329	3:40	390	43.U7N	174.75W	-64.	.105		4/ 7/77	1729	7:40	410	37.85N	127.55W	-60.	.315	
4/ 7/77	1334	3:45	390	43.27N	173.67W	-63.	.166		4/ 7/77	1734				126.67W		.322	
4/ 7/77		3:50	390	43.46N	172.59W	-63•	.159		4/ 7/77		7:50	410		125.80w	_	.322	
4/ 7/77		3:55	390	43.64N	171.52W	-63.	.167		4/ 7/77					124.96W		.238	
4/ 7/77	1349	4:00	390	43.81N	170.46W	-62.	.212		4/ 7/77					124.08W		.178	
4/ 7/77	1359	4:10	390	43.95N	168.32W	-64.	•171		4/ 7/11	1759				126.49W		.073	
									4/ 7/77	1809				121.27W	<del>-67.</del>	.041	



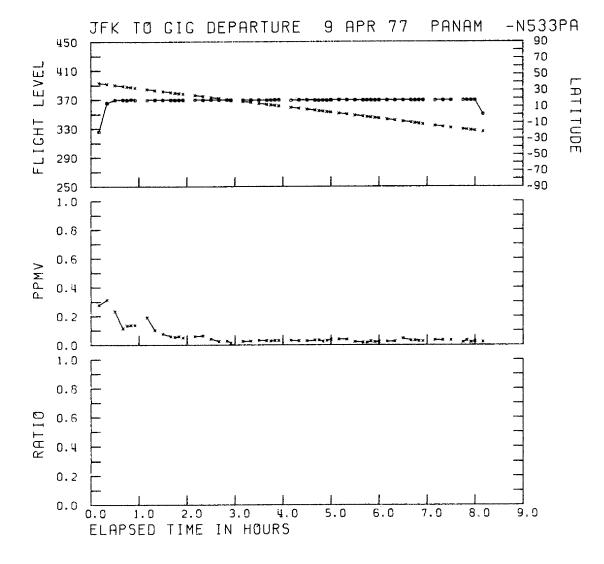
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .757 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 79 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN OZONE	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO
4/ 7/77	2232	0:10	331	35.56N	120.16W	-52.	.050		4/ 8/77	0322	5:00	390	58.00N	170.22W	-54.	.107	
4/ 7/77	2242	0:20	350	36.73N	121.03W	-56.	.071		4/ 8/77	0327	5:05	390	57.97N	171.46W	-54.	.093	
4/ 7/77	2252	0:30	350	37.90N	121.94W	-57.	.070		4/ 8/77	0337	5:15	390	57.88N	173.93W	-53.	.120	
4/ 7/77	2302	0:40	350	39.09N	122.90W	-58•	.121		4/ 8/77		5:25	390	57.74N	176.37W	-52.	•115	
4/ 7/77	2307	0:45	350	39.69N	123.39W	-58•	.085		4/ 8/77	0357	5:35	390	57.56N	178.80W	-52.	.110	
4/ 7/77		0:50	350	40.30N	123.91W	-59.	.084		4/ 8/77	0407	5:45	390	57.14N	178.928	-51.	.063	
4/ 7/77	2317	0:55	350	40.91N	124.45W	-57.	.081		4/ 8/77	0412	5:50	390	56.83N	177.86E	-51.	.106	
4/ 7/77		1:00	350	41.53N	125.01W	-57•	.178		4/ 8/77	0417				176.81E	-50.	.106	
4/ 7/77		1:10	350	42.79N	126.18W	<del>-</del> 55•	.196		4/ 8/77					175.77E		•426	
4/ 7/77				44.01N	127.51W		.196		4/ 8/77					174.74E		•441	
4/ 7/17	2352	1:30	350	45.18N	128.95W	-54.	-258		4/ 8/77	0432	6:10	410	55.46N	173.75E	-50.	• 446	
4/ 8/77				46.37N	130.38W	-52•	. 386		4/ 8/77	0437	6:15	410	55.10N	172.76E	-50.	.206	
4/ 8/77				47.01N			. 395		4/ 8/77					170.80E		•068	
4/ 8/77		-		47.64N	131.71W		• 339		4/ 8/77				53.61N	168.83E		.069	
4/ 8/77				48.26N	132.41W		.329		4/ 8/77					166.87E		.069	
4/ 8/77		-	-	48.87N	133.10W		.326		4/ 8/77					164.98E		•090	
4/ 8/77				50.07N	134.54W	-	•361		4/ 8/77				51.81N			•098	
4/ 8/77				51.21N	135.99W		.321		4/ 8/77					163.16E		.092	
4/ 8/77				52.31N			•486		4/ 8/77					162.29E		.110	
4/ 8/77				53.36N	139.02W		.480		4/ 8/77				50.67N			.109	
4/ 8/77				53.88N	139.81W		-512		4/ 8/77					159.75E		.139	
4/ 8/77				54.27N	140.74W				4/ 8/77					158.15E		-155	
P 4/8/77				54.61N	141.71W		.578		4/ 8/77				48.21N	156.60E		•097	
				54.93N	142.69W		.465		4/ 8/77					155.13E		.120	
4/ 8/77				55.56N			.542		4/ 8/77					154.41E		.120	
4/ 8/77				56.17N			.732		4/ 8/77		2 Fr 2			153.71E		•130	
4/ 6/77				56.73N	148.91W		.757		4/ 8/77				46.05N			.100	
4/ 8/77				57.16N	151.13W		•595		4/ 8/77					154.35E		-098	
4/ 8/77				57.31N	152.30W		.124		4/ 8/77					151.05E		•146	
4/ 8/77				57.44N	153,46W		.109		4/ 8/77				43.87N	149.81E		.123	
4/ 8/77				57.57N	154.63W		.093		4/ 8/77					148.60E		•537	
4/ 8/77				57.68N	155.78W		.087		4/ 8/77					147.44E		•325	
4/ 8/77				57.88N	158.15W		.092		4/ 8/77			_	41.73N			.152	
4/ 8/77				57.96N	159.33W		.085		4/ 8/77		4 4 4	_		146.31E		.118	
4/ 8/77				58.06N	161.72W		.099		4/ 8/77					145.75E		.120	
4/ 8/77				58.09N	164.11w		.136		4/ 8//7					145.20E		.080	
4/ 8/77				58.09N	166.55W		.096		4/ 8/77				39.55N			.081	
4/ 8/77				58.07N	167.78W		.089		4/ 8/77					143.07E		.059	
4/ 8/77	0317	4:55	390	58.03N	169.00W	-52•	.108		4/ 8/77				-	142.07E		.134	
									4/ 8/77	0817	9:55	306	37.19N	141.05E	-42.	.047	



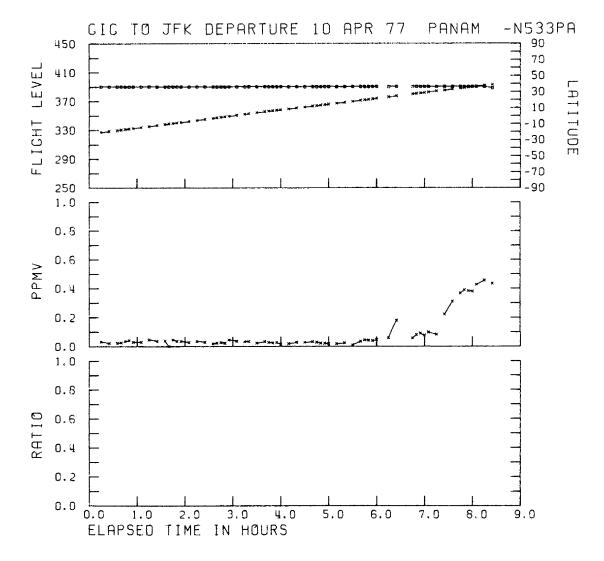
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .558 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 84 DATA SOURCE: GASP TAPE VL010, FILE 2

4 8777 1249 0150 350 31-328 14-3.56 5-4. 0.08 4 / 8777 1740 5150 390 59-350 150-0.09 -0.00 4 8777 1740 5150 390 59-340 14-3.56 5-4. 0.05 4 8777 1249 0140 350 34-31N 14-3.71E -55. 0.09 4 / 8777 1749 1749 0140 350 34-31N 14-3.71E -55. 0.09 4 / 8777 1804 0100 390 59-350 14-1.575 -50. 0.20 4 / 8777 1249 0145 350 40.000 147.85E -55. 0.06 4 / 8777 1804 0100 390 59-350 14-1.575 -50. 0.20 6 / 8777 1249 0145 350 40.000 147.85E -55. 0.06 4 / 8777 1809 0150 390 59-350 14-1.575 -50. 0.08 6 / 8777 1249 0145 350 40.000 147.85E -55. 0.06 4 / 8777 1819 0150 390 59-350 14-1.500 -50. 0.08 6 / 8777 1249 0155 350 41.000 149.35E -53. 0.25 4 / 8777 1819 0150 390 59-0.00 141.500 -50. 0.08 6 / 8777 1249 0155 350 41.000 149.35E -53. 0.25 4 / 8777 1829 0150 390 59-0.00 143.676 -49. 0.075 6 / 8777 1249 1150 350 41.41N 153.67E -53. 3.00 4 / 8777 1249 1150 350 41.41N 153.67E -53. 3.00 4 / 8777 1249 1150 350 41.41N 153.67E -53. 3.00 4 / 8777 1249 1150 350 41.41N 153.67E -53. 3.00 4 / 8777 1249 1150 350 41.41N 153.67E -55. 0.05 4 / 8777 1249 1150 350 41.41N 153.67E -55. 0.05 4 / 8777 1249 1150 350 45.59N 159.21E -55. 0.05 4 / 8777 199 1150 390 59-1.00 124.84W -49. 0.072 4 / 8777 1249 1150 350 45.59N 159.21E -55. 0.05 4 / 8777 199 1150 390 59-1.00 124.84W -49. 0.072 4 / 8777 1249 1150 350 45.59N 159.21E -55. 0.05 4 / 8777 199 1150 390 59-1.00 124.73W -50. 0.074 4 / 8777 1249 1150 350 45.59N 159.21E -55. 0.05 4 / 8777 199 1150 390 59-1.00 124.73W -50. 0.074 4 / 8777 1249 1150 350 45.59N 159.21E -55. 0.05 4 / 8777 199 1150 390 59.10N 151.39W -57N 119.33W -57N	MU/DA/YR (	GMT	ETIM HR:MN	FL	LAT	LONG	_	CABIN OZONE (	 RATIO	MOVDAVY	₹ G	BMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB,	RATIO
4 8/77 1244 0120 350 37.32N 144.36E -54. 0389 4/8/71 1759 5150 390 59.5N 141.59 -52. 0059 4/8/77 1244 0140 350 33.47N 147.12E -55. 052 4/8/77 1804 0100 390 59.5N 144.75% -50. 0206 4/8/77 1249 0145 350 40.5N 147.12E -55. 0450 4/8/77 1804 0100 390 59.5N 144.75% -50. 0206 4/8/77 1249 0145 350 40.5N 147.58E -53. 0450 4/8/77 1819 0115 390 59.5N 144.33% -50. 0867 4/8/77 1254 0150 350 41.5N 149.51E -53. 055 4/8/77 1829 0125 390 59.5N 144.53% -50. 0866 4/8/77 1829 0125 390 59.5N 144.53% -50. 0866 4/8/77 1829 0125 390 59.5N 134.50% -39. 0866 4/8/77 1829 0125 390 59.5N 134.60% -39. 0866 4/8/77 1349 1145 350 44.4N 155.37 15.5% -4.4N 147.60% -39. 0866 4/8/77 1349 1145 350 44.5N 15.38 14.5% -39. 087.4N 148.60% -39. 0867 4/8/77 1349 1145 350 46.5N 15.38 14.5% -39. 087.4N 148.60% -39. 0866 4/8/77 1349 1145 350 46.5N 15.38 14.5% -39. 180.40% -39. 087.4N 14.50% -39. 0866 4/8/77 1349 1145 350 46.5N 15.08 15	4/ 8/77 1	214	0:10	314	36.58N	142.69E	-43.	.040		4/ 8/7	7 17	149	5:45	390	59.36N	150.05W	-53.	.101	
4 8771 1244 0140 350 39.47N 147.12E -55052 4 87871 1804 6100 390 99.58N 144.33N -5002087 4 8771 1249 0150 350 40.54N 148.60E -55040	4/ 8/77 17	224	0:20	350	37.32N	144.36E	-54.	.038											
4/8/77 1249 0149 350 40.00 147.89E -55046 4/8/77 1290 0159 350 40.00 147.89E -55067 4/8/77 1290 0159 350 40.00 149.39E -53255 4/8/77 1819 0159 350 40.00 149.39E -53255 4/8/77 1819 0159 350 40.00 149.39E -53255 4/8/77 1819 0159 350 40.00 159.39E -53255 4/8/77 1819 0159 350 40.00 151.67E -53411 4/8/77 1341 1110 350 41.310 151.67E -53411 4/8/77 1342 1120 350 43.410 153.27E -53350 4/8/77 1343 1133 350 44.29N 154.93E -55149 4/8/77 1343 1133 350 44.29N 154.93E -55149 4/8/77 1344 1140 350 45.13N 156.59E -55149 4/8/77 1349 1140 350 45.13N 156.59E -55045 4/8/77 1349 1145 350 45.5N 157.44E -55097 4/8/77 1349 1145 350 45.5N 157.44E -55097 4/8/77 1349 1145 350 45.5N 159.21E -56110 4/8/77 1349 1145 350 45.5N 159.21E -56110 4/8/77 1349 1145 350 45.5N 158.2E -56099 4/8/77 1449 216 350 46.5N 159.21E -56110 4/8/77 1449 216 350 46.5N 158.2E -56007 4/8/77 1449 216 350 46.5N 158.2E -56007 4/8/77 1449 216 350 46.5N 159.2E -56007 4/8/77 1449 216 350 50.5N 158.2E -56007 4/8/77 1449 216	4/ 8/77 1	<b>23</b> 4	0:30	350	38.41N	145.71E	-55.	.039		4/ 8/7	7 17	759				147.19W	-52.	•079	
4/877 1294 0150 350 40.94N 144.60E -55007 4/877 1294 0150 350 40.95N 155.50 40.00 144.50 50006 4/877 1294 1100 350 41.57N 150.10E -52494 4/877 1394 1100 350 41.97N 150.10E -52494 4/877 1394 1100 350 41.97N 150.10E -52491 4/877 1342 1120 350 42.90 151.67E -53300 4/877 1342 1140 350 42.90 151.67E -53300 4/877 1342 1140 350 42.90 151.67E -53300 4/877 1342 1140 350 42.90 151.67E -53300 4/877 1344 1140 350 42.90 151.67E -55035 4/877 1344 1140 350 42.90 151.67E -55035 4/877 1344 1150 350 46.58 159.21E -56116 4/877 1344 1130 350 47.90 140.00 160 -56117 4/877 144 210 350 47.70 161.02E -56007 4/877 144 210 350 47.70 161.02E -56007 4/877 144 210 350 47.70 161.02E -56007 4/877 144 210 350 47.90 140.00 160.57E -55004 4/877 1442 2120 350 48.90 164.57E -55004 4/877 1442 2120 350 48.90 164.57E -55004 4/877 1442 2120 350 48.90 164.57E -55004 4/877 1442 2120 350 48.90 166.27E -53000 4/877 1449 2153 350 49.90 166.27E -53000 4/877 1049 310 350 51.00 140.60.20E -50007 4/877 1040 310 350 51.00 140.60.90E -50007 4/877 1040 310 350			0:40	350	39.47N	147.12E	-55.	.052		4/ 8/7	7 18	304	6:00	390	59.54N	145.75W	-50.	.206	
4/ 8/77 1829 0:95 380 41.00N 149.39E +33. 425 4/ 8/77 1804 0:25 390 59.50N 135.86W -42. 075 4/ 8/77 1914 1:10 350 41.57N 150.10E +32. 459 4/ 8/77 1814 0:35 94.610 151.67E +33. 4:11 4/ 8/77 1844 0:45 389 59.50N 135.86W -44. 086 4/ 8/77 1344 1:10 350 42.610N 151.67E +33. 4:11 4/ 8/71 1845 0:50 390 59.50N 133.63W -44. 086 4/ 8/77 1343 1:30 350 44.29N 154.93E +55. 149 4/ 8/77 1854 0:50 390 59.52N 133.63W -44. 088 4/ 8/77 1344 1:40 350 45.13N 155.95E +55. 0.55 4/ 8/77 1540 1:50 390 59.52N 132.63W -47. 092 4/ 8/77 1344 1:40 350 45.13N 155.95E +55. 0.95 4/ 8/77 1919 1/10 390 59.52N 132.63W -47. 092 4/ 8/77 1349 1:45 350 45.54N 157.44E +55. 0.97 4/ 8/77 1919 1/10 390 59.12N 122.84W -49. 0.072 4/ 8/77 1349 1:55 350 45.54N 157.44E +55. 0.97 4/ 8/77 1919 1/10 390 59.12N 122.84W -49. 0.072 4/ 8/77 1349 1:55 350 46.35N 159.21E -56. 0.97 4/ 8/77 1949 1/20 390 58.75N 139.33W -57. 102 4/ 8/77 1949 1/20 350 46.74W 160.16E -56. 0.17 4/ 8/77 1949 1/20 390 58.75N 139.33W -57. 102 4/ 8/77 1949 1/20 350 46.74W 160.16E -56. 0.07 4/ 8/77 1949 1/20 390 57.77N 114.08W -60. 0.085 4/ 8/77 1949 1/20 350 46.75W 161.82E -56. 0.067 4/ 8/77 1949 1/20 390 57.77N 114.08W -60. 0.085 4/ 8/77 1949 1/20 320 350 46.47W 160.16E -56. 0.07 4/ 8/77 1949 1/20 390 57.77N 114.08W -60. 0.085 4/ 8/77 1949 1/20 320 350 44.87 8/78 8/78 8/78 8/78 8/78 8/78 8/78 8	4/ 8/77 17	249	0:45	350	40.00N	147.85E	<del>-</del> 55•	.046		4/ 8/1	7 18	309	6:05	390	59.58N	144.33W	-50.	.087	
4/8771 1940 1100 350 41.57N 150.10E -52. 459 4/8771 1940 1100 350 42.50N 151.67E -33. 411 4/8771 1940 1100 350 42.50N 151.67E -33. 411 4/8771 1940 1100 350 43.41N 153.27E -33. 350 4/8771 1940 1100 350 43.41N 153.27E -33. 350 4/8771 1940 1100 350 42.42N 154.39E -55. 405 4/8771 1940 1140 350 45.13N 156.59E -55. 405 4/8771 1940 1140 350 45.54N 157.44E -55. 405 4/8771 1940 1140 350 45.54N 157.44E -55. 407 4/8771 1940 1150 350 45.75N 161.62E -56. 416 4/8771 1940 1150 350 45.75N 161.62E -56. 416 4/8771 1940 1150 350 45.75N 161.62E -56. 407 4/8771 1940 110 350 47.57N 161.62E -56. 407 4/8771 1940 110 350 47.5NN 161.62E -56. 407 4/8								.067								141.50W	-50.	•086	
4/8/77 1314 1:10 350 42.50N 151.67E -53. 411 4/8/77 1849 6:45 389 59.57N 133.04w -48. 080 14/8/77 1344 1:20 350 43.4 N 153.27E -53. 3.50  4/8/77 1855 6:50 390 59.57N 133.04w -48. 081 14/877 1344 1:30 350 44.29N 154.93E -55. 3.49 4/8/77 1859 6:50 390 59.57N 130.23w -47. 002 14/8/77 1344 1:40 350 49.13N 156.59E -55. 3.97 4/8/77 1849 1:40 350 49.13N 156.59E -55. 3.97 4/8/77 1349 1:40 350 49.59N 154.32E -55. 3.97 4/8/77 1949 1:10 390 59.12N 128.34W -49. 072 14/8/77 1349 1:45 350 49.59N 158.32E -56. 3.97 4/8/77 1393 1:39 390 58.75N 1:9:13w -57. 104 14/8/77 1394 1:50 350 46.35N 159.21E -56. 3.97 4/8/77 1949 2:39 390 58.75N 1:9:13w -57. 104 14/8/77 1949 2:30 350 46.35N 159.21E -56. 3.16 4/8/77 1949 2:39 390 58.75N 1:9:13w -57. 102 14/8/77 1949 2:30 350 46.74N 150.10E -56. 3.17 4/8/77 1949 2:30 350 46.75N 150.15E -56. 3.50 4/8/77 1949 2:30 350 46.75N 150.15E -56. 3.50 4/8/77 1949 2:20 350 46.5N 16.182E -56. 3.50 4/8/77 1949 2:25 350 48.5N 16.52E -56. 3.50 4/8/77 1949 2:25 350 48.5N 16.52E -56. 3.50 4/8/77 1949 2:25 350 48.75N 161.82E -56. 3.50 4/8/77 1949 2:25 350 48.75N 164.48E -56. 3.52 4/8/77 1949 2:25 350 48.75N 164.48E -56. 3.52 4/8/77 1949 2:25 350 50.19N 166.27E -53. 3.000 4/8/77 1949 2:25 350 50.19N 166.27E -53. 3.000 4/8/77 1949 2:25 350 50.19N 166.27E -53. 3.000 4/8/77 1949 2:25 350 50.19N 166.27E -55. 3.000 4/8/77 1949 3:10 300 350 51.6N 170.00E -49. 3.07 4/8/77 2049 8:10 340 50.4NN 10/.21E -55. 3.000 4/8/77 1949 3:10 350 51.6NN 170.00E -49. 3.07 4/8/77 2049 8:10 340 50.4NN 10/.21E -55. 3.000 4/8/77 1509 3:10 350 51.6NN 170.00E -49. 3.07 4/8/77 2049 8:10 340 50.4NN 10/.21E -55. 3.000 4/8/77 1509 3:10 350 51.6NN 170.00E -49. 3.07 4/8/77 2049 8:10 340 50.4NN 10/.21E -55. 3.000 4/8/77 1509 3:10 350 51.6NN 170.00E -49. 3.00 4/8/77 2049 8:10 340 50.5NN 10/.21E -50. 3.000 4/8/77 2049 8:10 340 50.5NN 10/.21E -50. 3.000 4/8/77 2049 8:10 340 50.5NN 10/.21E -50. 3.000 4/8/77 204								.255								138.67W	-49.	.075	
4/ 8/77 1343 1:20 350 43.4 N 153.27E -53. 350								.454								135.84W	-47.	.086	
4/8/77 1344 1:30 350 44.29N 154.93E -55149 4/8/77 1344 1:40 350 45.13N 156.59E -55035 4/8/77 1349 1:45 350 45.13N 156.59E -55035 4/8/77 1349 1:45 350 45.54N 157.44E -55097 4/8/77 1349 1:50 350 45.54N 157.44E -55097 4/8/77 1349 1:50 350 45.54N 157.44E -55097 4/8/77 1349 1:50 350 45.59N 158.32E -36090 4/8/77 1349 1:50 350 45.59N 158.32E -36090 4/8/77 1349 1:50 350 45.59N 158.32E -36106 4/8/77 1404 2:00 350 46.73N 159.21E -55116 4/8/77 1949 7:45 390 58.75N 119.33W -57102 4/8/77 1940 2:00 350 46.73N 159.21E -55116 4/8/77 1940 7:45 390 58.45N 110.39W -57102 4/8/77 1941 2:10 350 47.75N 161.62E -56007 4/8/77 1949 7:45 390 57.77N 11-08W -00098 4/8/77 1429 2:20 350 48.36N 163.57E -55004 4/8/77 1429 2:25 350 48.36N 163.57E -55004 4/8/77 1429 2:25 350 48.36N 163.57E -55004 4/8/77 1429 2:35 350 49.49N 166.27E -53000 4/8/77 1429 2:35 350 50.19N 166.97E -53000 4/8/77 1299 3:15 390 57.39N 112.96W -03083 4/8/77 1429 2:55 350 50.19N 166.97E -53000 4/8/77 1509 3:05 350 50.86N 169.95E -49107 4/8/77 1509 3:05 350 50.26N 169.95E -49107 4/8/77 1509 3:05 350 50.26N 169.95E -49300 4/8/77 1509 3:05 350 50.26N 17.08E -49097 4/8/77 1509 3:05 360 50.26N 17.08E -49097 4/8/77 1509 3:05 360 50.26N 17.08E -49097 4/8/77 1509 3:05 360 50.26N 17.08E -49.													6:45	389	59.57N			.080	
4/ 8/77 1349 1140 350 40.13N 150.59E =55. 035																		.081	
4/ 8/77 1349 1145 350 45.54N 157.44E =55. 097 4/ 8/77 1349 1150 350 45.95N 158.32E =56. 090 4/ 8/77 1349 1150 350 46.35N 159.21E =56. 116 4/ 8/77 1949 7145 390 58.75N 119.13M =57. 102 4/ 8/77 1940 2100 350 46.474N 160.10E =56. 116 4/ 8/77 1940 7145 390 58.55N 110.39W =57. 102 4/ 8/77 1940 2100 350 46.74N 160.10E =56. 116 4/ 8/77 1940 7145 390 58.55N 115.23W =60. 098 4/ 8/77 1942 210 350 48.36N 163.57E =56. 0067 4/ 8/77 1942 210 350 48.36N 163.57E =56. 0067 4/ 8/77 1949 7155 390 57.77N 11.408W =60. 0.085 4/ 8/77 1429 2125 350 48.36N 163.57E =55. 0064 4/ 8/77 1429 2125 350 48.36N 163.57E =55. 0064 4/ 8/77 1429 2125 350 48.36N 163.57E =55. 0060 4/ 8/77 1429 2145 350 50.19N 164.98E =50. 007 4/ 8/77 1949 2145 350 50.19N 164.98E =50. 007 4/ 8/77 1949 2145 350 50.19N 164.99E =50. 007 4/ 8/77 1949 2155 350 50.46N 169.95E =49. 1107 4/ 8/77 1504 310 350 51.26N 170.80E =49. 107 4/ 8/77 1509 310 350 51.26N 170.80E =49. 097 4/ 8/77 1509 310 350 51.26N 173.43E =49. 530 4/ 8/77 1509 310 350 52.48N 173.43E =49. 530 4/ 8/77 1529 3125 370 53.28N 175.34E =50. 558 4/ 8/77 1529 3125 370 53.58N 177.39E =48. 046 4/ 8/77 1539 3125 369 55.28N 176.38E =47. 052 4/ 8/77 1544 3140 369 55.58N 177.20W =47. 035 4/ 8/77 1604 4100 369 55.58N 177.20W =47. 035 4/ 8/77 1604 4100 369 55.58N 177.20W =47. 035 4/ 8/77 1604 4100 369 55.58N 177.20W =47. 035 4/ 8/77 1604 4100 369 55.68N 177.20W =47. 035 4/ 8/77 1604 4100 369 55.28N 171.43E =49. 036 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 369 57.49N 166.49E =52. 070 4/ 8/77 1604 410 410 410 410 41																		•092	
4/ 8/77 1359 1:50 350 45.95N 158.322 -56. 0990 4/ 8/77 1939 7:53 390 58.75N 19.13M -57. 102 4/ 8/77 1359 1:55 350 46.35N 159.21E -56. 117 4/ 8/77 1949 7:55 390 58.51N 115.23M -57. 102 4/ 8/77 1949 7:55 390 58.51N 115.23M -57. 102 4/ 8/77 1949 7:55 390 58.14N 115.23M -57. 102 4/ 8/77 1949 7:55 390 58.14N 115.23M -50. 098 4/ 8/77 1442 2:10 350 47.57N 151.82E -56. 007 4/ 8/77 1959 7:55 390 57.77N 114.00M -60. 085 4/ 8/77 1442 2:20 350 48.36N 163.57E -55. 0064 4/ 6/77 2004 8:00 390 57.37N 114.96M -60. 085 4/ 8/77 1439 2:25 350 48.36N 164.84E -56. 1132 4/ 8/77 2019 8:00 390 57.37N 114.96M -60. 085 4/ 8/77 1439 2:35 350 49.45N 166.27E -53. 0000 4/ 8/77 2019 8:00 389 57.01N 111.86M -63. 083 4/ 8/77 1439 2:45 350 50.15N 166.27E -53. 0000 4/ 8/77 2019 8:00 389 57.01N 111.86M -63. 083 4/ 8/77 1499 2:45 350 50.45N 169.95E -49. 107 4/ 8/77 2029 8:25 390 55.74N 107.52M -65. 0040 4/ 8/77 1504 3:00 350 51.65N 171.65E -50. 104 4/ 8/77 2039 8:25 390 55.09N 107.49ZM -65. 046 4/ 8/77 1509 3:00 350 51.26N 170.80E -49. 107 4/ 8/77 2039 8:25 390 55.09N 104.92M -65. 046 4/ 8/77 1509 3:00 350 51.26N 170.80E -49. 500 4/ 8/77 2054 8:50 410 54.18N 101.47M -67. 120 4/ 8/77 1509 3:00 350 51.5N 171.65E -50. 104 4/ 8/77 2054 8:50 410 54.18N 101.47M -67. 120 4/ 8/77 1509 3:00 350 51.5N 171.65E -50. 104 4/ 8/77 2054 8:50 410 54.18N 101.47M -67. 120 4/ 8/77 1509 3:00 550 55.25N 173.45E -49. 550 4/ 8/77 2054 8:50 410 53.45N 100.37M -66. 1554 4/ 8/77 1599 3:35 369 54.26N 173.45E -49. 550 4/ 8/77 2054 8:50 410 53.45N 100.37M -66. 1554 4/ 8/77 1509 3:00 56.55 5.25N 170.34E -49. 550 4/ 8/77 2054 8:50 410 53.40N 100.37M -66. 1554 4/ 8/77 1509 3:00 56.55 5.25N 170.30M -47. 055 4/ 8/77 2159 9:00 410 53.45N 100.37M -66. 1554 4/ 8/77 1509 4:05 56.50N 177.39E -50. 0554 4/ 8/77 2159 9:05 410 52.27N 96.17M -65. 266 4/ 8/77 1604 4:05 369 55.25N 177.39E -50. 058 4/ 8/77 2159 9:05 410 48.83N 89.90W -57. 362 4/ 8/77 1604 4:05 369 55.45N 177.39M -50. 058 4/ 8/77 2159 9:05 410 48.83N 89.90W -57. 362 4/ 8/77 1604 4:15 369 55.45N 177.64N -605 4/ 8/77 2159 10:05 41																			
4/ 8/77 1949																			
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4/ 8/77 1649       4:45 369 57.99N       166.45W -52.       .058       4/ 8/77 2229       10:25 410 46.13N       83.21W -51.       .098         4/ 8/77 1654       4:50 369 58.22N       165.16W -52.       .070       4/ 8/77 2239       10:35 410 45.25N       81.40W -50.       .069         4/ 8/77 1659       4:55 370 58.43N       163.88W -54.       .070       4/ 8/77 2249       10:45 410 44.28N       79.73W -50.       .080         4/ 8/77 1704       5:00 369 58.64N       162.57W -55.       .063       4/ 8/77 2254       10:50 410 43.84N       78.86W -47.       .078         4/ 8/77 1709       5:05 370 58.76N       161.22W -54.       .075       4/ 8/77 2304       11:00 410 42.94N       77.18W -49.       .052         4/ 8/77 1729       5:25 369 58.90N       155.66W -54.       .432       4/ 8/77 2309       11:05 410 42.58N       76.27W -48.       .064	4/ 8/77 16	639	4:35	369	57.49N														
4/ 8/77 1654       4:50 369 58.22N 165.16W -52.       .070       4/ 8/77 2239 10:35 410 45.25N 81.40W -50.       .069         4/ 8/77 1059       4:55 370 58.43N 163.88W -54.       .070       4/ 8/77 2249 10:45 410 44.28N 79.73W -50.       .080         4/ 8/77 1704       5:00 369 58.64N 162.57W -55.       .063       4/ 8/77 2254 10:50 410 43.84N 78.86W -47.       .078         4/ 8/77 1709       5:05 370 58.76N 161.22W -54.       .075       4/ 8/77 2259 10:55 410 43.36N 78.04W -49.       .052         4/ 8/77 1719       5:15 369 58.81N 158.41W -54.       .083       4/ 8/77 2304 11:00 410 42.94N 77.18W -49.       .104         4/ 8/77 1729       5:25 369 58.90N 155.66W -54.       .432       4/ 8/77 2309 11:05 410 42.58N 76.27W -48.       .064	4/ 8/77 10	649	4:45	369	57.99N											_			
4/ 8/77 1059       4:55 370 58.43N       163.88W -54.       .070       4/ 8/77 2249       10:45 410 44.28N       79.73W -50.       .080         4/ 8/77 1704       5:00 369 58.64N       162.57W -55.       .063       4/ 8/77 2254       10:50 410 43.84N       78.86W -47.       .078         4/ 8/77 1709       5:05 370 58.76N       161.22W -54.       .075       4/ 8/77 2259       10:55 410 43.36N       78.04W -49.       .052         4/ 8/77 1719       5:15 369 58.81N       158.41W -54.       .083       4/ 8/77 2304       11:00 410 42.94N       /7.18W -49.       .104         4/ 8/77 1729       5:25 369 58.90N       155.66W -54.       .432       4/ 8/77 2309       11:05 410 42.58N       76.27W -48.       .064	4/ 8/77 16	654																	
4/ 8/77 1704       5:00 369 58.64N       162.57W -55.       .063       4/ 8/77 2254       10:50 410 43.84N       78.86W -47.       .078         4/ 8/77 1709       5:05 370 58.76N       161.22W -54.       .075       4/ 8/77 2259       10:55 410 43.36N       78.04W -49.       .052         4/ 8/77 1719       5:15 369 58.81N       158.41W -54.       .083       4/ 8/77 2304       11:00 410 42.94N       /7.18W -49.       .104         4/ 8/77 1729       5:25 369 58.90N       155.66W -54.       .432       4/ 8/77 2309       11:05 410 42.58N       76.27W -48.       .064	4/ 8/77 10	659											-						
4/ 8/77 1709       5:05 370 58.76N       161.22W -54.       .075       4/ 8/77 2259       10:55 410 43.36N       78.04W -49.       .052         4/ 8/77 1719       5:15 369 58.81N       158.41W -54.       .083       4/ 8/77 2304       11:00 410 42.94N       /7.18W -49.       .104         4/ 8/77 1729       5:25 369 58.90N       155.66W -54.       .432       4/ 8/77 2309       11:05 410 42.58N       76.27W -48.       .064	4/ 8/77 1	704	5:00	369	58.64N										- '				
4/8/77 1719 5:15 369 58.81N 158.41W -54083 4/8/77 2304 11:00 410 42.94N 77.18W -49104 4/8/77 1729 5:25 369 58.90N 155.66W -54432 4/8/77 2309 11:05 410 42.58N 76.27W -48064	4/ 8/77 17	709													-				
4/ 8/77 1729 5:25 369 58.90N 155.66W -54432 4/ 8/77 2309 11:05 410 42.58N 76.27W -48064	4/ 8/77 17	719																	
	4/ 8/77 17	729																	
	4/ 8/77 1	739	5:35	390	59.15N														



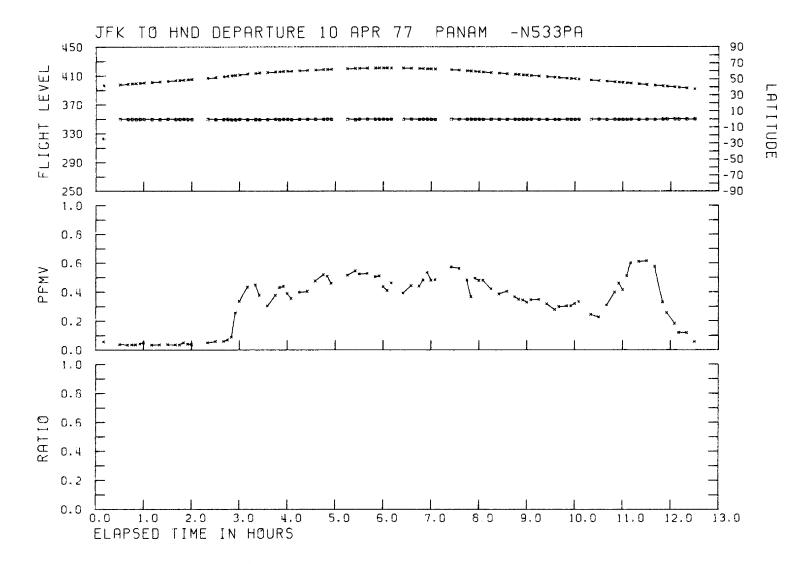
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .313 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 58 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMR.	MOZDAZYR GMT ETÎM FL LAT HŘÍMN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
4/ 9/77 0238	0:11 326 38.84N	72.09W -48277	4/ 9/77 0657 4:30 370 6.4	2N 55.69W -50028
4/ 9/77 0247	0:20 366 37.63N	71.70w ~54313	4/ 9/77 0707 4:40 370 5.2	ON 55.08W -50032
4/ 9/77 0257	0:30 370 36.38N	71.33W -55233	4/ 9/77 0712 4:45 370 4.5	
4/ 9/77 0307	0:40 370 35.11N	70.95W ~55116	4/ 9/77 0717 4:50 370 3.9	
4/ 9/77 0312	0:45 370 34.46N	70.77W -55134	4/ 9/77 0722 4:55 370 3.3	2N 54.35W -49030
4/ 9/77 0317	0:50 371 33.82N	70.59W -56137	4/ 9/77 0727 5:00 370 2.7	ON 54.11W -49038
4/ 9/77 0323	0:56 370 33.17N	70.40W -57137	4/ 9/77 0737 5:10 370 1.4	5N 53.59W -49039
4/ 9/77 0338	1:11 370 31.23N	69.83W -53190	4/ 9/77 0747 5:20 370 .2	ON 53.06W -50038
4/ 9/77 0347	1:20 370 29.94N	69.46W -54101	4/ 9/77 0757 5:30 370 1.0	3S 52.54W -50022
4/ 9/77 0357	1:30 370 28.64N	69.09W -55076	4/ 9/77 0807 5:40 370 2.2	65 5c.02W -50017
4/ 9/77 0407	1:40 370 27.32N	68.73w -55059	4/ 9/77 0812 5:45 370 2.8	8S 51.78W -51017
4/ 9/77 0412	1:45 370 26.69N	68.41W -54054	4/ 9/77 0817 5:50 370 3.5	05 51.53W -50025
4/ 9/77 0417	1:50 370 26.11N	67.92W -53U58	4/ 9/77 0822 5:55 370 4.1	3S 51.27W -50021
4/ 9/77 0423	1:56 370 25.52N	67.43W -52050	4/ 9/77 0827 6:00 370 4.7	7S 51.02w -50022
4/ 9/77 0438	2:11 370 23.73N	65.98W -52U59	4/ 9/77 0838 6:11 370 6.0	6S 50.50W -49024
4/ 9/77 0447	2:20 370 22.51N	65.15W -50063	4/ 9/77 0847 6:20 370 7.3	55 49.95W -49025
4/ 9/77 0457	2:30 370 21.25N	64.33W -51041	4/ 9/77 0857 6:30 370 8.5	75 49.34W -49046
4/ 9/77 0508	2:41 370 19.99N	63.53w -51024	4/ 9/71 0907 6:40 370 9.8	75 48.83W -49031
4/ 9/77 0517	2:50 370 18.73N	62.75W -51U28	4/ 9/77 0912 6:45 370 10.5	2S 48.57W -49032
4/ 9/77 0523	2:56 370 18.11N	62.37w -51013	4/ 9/77 0917 6:50 370 11.1	9S 48.40W -50028
4/ 9/77 0538	3:11 370 16.26N	61.27W -50025	4/ 9/77 0923 6:56 370 11.8	9S 48.35W -49026
4/ 9/77 0547	3:20 370 15.01N	60.56W -50026	4/ 9/17 0938 7:11 370 13.9	75 48.20w -49035
P 4/ 9/77 0557	3:30 370 13.74N	59.86W -51031	4/ 9/77 0947 1:20 370 15.3	7S 48.10w -50033
J 4/ 9/77 0607	3:40 370 12.49N	59.13W -51030	4/ 9/77 0957 7:30 370 16.6	7S 47.66W -50033
4/ 9/77 0612	3:45 370 11.87N	58.75W -51028	4/ 9/77 1012 7:45 370 18.4	85 46.55W -51020
4/ 9/77 0617	3:50 370 11.25N	58.38W -52030	4/ 9/77 1017 /:50 370 19.0	8S 46.17W -50033
4/ 9/77 0623	3:56 370 10.63N	58.02W -52030	4/ 9/77 1022 7:55 370 19.7	0S 45.78W -50020
4/ 9/77 0638	4:11 370 8.83N	56.96W -51031	4/ 9/77 1027 BIOO 370 20.3	1S 45.38W -51025
4/ 9/77 0047	4:20 370 7.63N	56.32W -51028	4/ 9/77 1037 8:10 351 21.5	35 44.58W -46022



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE# .456 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 65 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/	R GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	HR:MN	۴L	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO
4/10/7	7 0202	0:15	391	20.485	43.78W	-56.	.032		4/10/77	0557	4:10	390	8.60N	56.82W	-55.	.019	
4/10/7	7 0212	0:25	390	19.255	44.30W	-56.	.022		4/10/77	0607	4:20	390	9.73N	51.47W		.028	
4/10/7	7 0222	0:35	390	18.035	44.91W	-56.	.023		4/10/77	0617	4:30	390	10.85N	58.14W	-55.	.028	
	7 0227	0:40	390	17.435	45.20W	-55•	.025		4/10/77	0627	4:40	390	11.99N	58.82W	-55.	.033	
	7 0232	0:45	390	16.835	45.50W	-55•	.036		4/10/77	0632	4:45	390	12.56N	59.17W	-55.	.029	
	7 0237	0:50	390	16.235	45.79W	-55•	.042		4/10/77	0637	4:50	390	13.13N	59.51W	-55.	.022	
	7 0242			15.625	46.08W		.029		4/10/77	0642	4:55	390	13.71N	59.83W	-55.	.021	
	7 0252			14.395	46.67W		.030		4/10/77	0647	5:00	390	14.28N	60.15W	-56.	.017	
	7 0102			13.14S	47.27W		.047		4/10/77				15.43N	60.79W	-56.	.018	
	7 0312			11.885	47.86W		.036		4/10/77				16.56N	61.43W	-55.	.024	
	7 0322			10.645	48.44W		.039		4/10/77				17.75N	62.00W	-55.	.010	
	7 0327	-		10.015	48.71W		.000		4/10/77				18.99N	62.49W		.035	
	7 0332	1:45			48.98W		.046		4/10/77	_	wa wa		19.62N	62.74W		.044	
	7 0337	1:50		ø.75S	49.25W		.036		4/10/77				20.25N	09.00W		.042	
	7 0342	1:55			49.53W		.035		4/10/77				20.87N	63.25W		.039	
	7 0352	2:05		6.855	50.07W				4/10/77		**		21.49N	63.50W		.046	
	7 0402	2:15		5.595	50.60W	-	.035		4/10/77				23.36N	64.29W		.059	
	7 0412	2:25		4.315	51.14W		.029		4/10/77				24.60N	64.82W		.179	
	7 0422	2:35		3.035	51.68W		.019		4/10/77				27.04N	65.90W		.058	
	7 0427	2:40		2.395	51.96W		.023		4/10/77				27.65N	66.18w		.080	
	7 0432	2:45		1.755	52.23W				4/10/77	_			28.26N	66.46W		.090	
	7 0437	2:50		1.125	52.49W				4/10/77				28.87N	66.75W		•076	
	7 0442	2:55		•50S	52.76W				4/10/77				29.48N	67.04W		.098	
	7 0452	3:05		•74N	53.29W				4/10/77		4 - *		30.71N	67.64W		.082	
	7 0502	3:15		1.99N	53.82W	_	.033		4/10/77	-			31.92N	68.24W		.222	
	7 0507	3:20		2.63N	54.08W		.035		4/10/77				33.14N	68.86W		.310	
	7 0517	3:30		3.92N	54.58W		.024		4/10/77				34.33N	69.49W		.367	
	7 0527	3:40		5.16N	55.06W		.034		4/10/77				34.91N	69.80W		.389	
	7 0532	3:45		5.74N	55.32W		.027		4/10/77				35.50N	70.12W		.383	
	7 0537	3:50		6.31N	55.62W		.024		4/10/77			-	36.06N	70.44W		.379	
	7 0542	3:55		6.89N	55.92W		.027		4/10/77				36.64N	70.76W		•427	
4/10/7	7 0547	4:00	390	7.46N	56.22W	-55•	.015		4/10/77				37.77N	71.42W		•456	
									4/10/77	1012	8:52	389	38.86N	75.50M	-51.	• 435	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .616 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 93
DATA SOURCE: GASP TAPE VLUIO, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

													-						
МО	/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) (CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE () CABIN	•	RATIO
4	/10/77	1754	0:10	323	41.93N	75.56W	-52-	.058		4/11/77	0010	6:25	350	63.72N	151.31%	-50.	.393		
	/10/77				43.28N	78.02W		.039		4/11/77				63.53N	154.30W		.443		
	/10/77				43.96N	79.29W		.035		4/11/77		6:46	350	63.27N	157.24W	-48.	•440		
	/10/77				44.31N	79.94W		.037		4/11/77		6:51	350	63.12N	158.70W	-48.	•483		
	/10/77				44.64N	80.60W		.037		4/11/77	0040	6:56	350	62.96N	160.13w	-47.	•534		
4	/10/77	1839	0:55	350	44.98N	81.27W	-58-	.044		4/11/77	0045	7:01	350	62.78N	161.53W	-47.	.481		
4	/10/77	1844	1:00	350	45.31N	81.95W	-58.	.051		4/11/77	0050	7:00	349	62.59N	162.91W	-47.	•484		
4	/10/77	1854	1:10	350	45.98N	83.37W	-58.	.035		4/11/77	0110	7:20	350	61.70N	168.23W	-47.	•572		
4	/10/77	1904	1:20	350	46.62N	84.84W	-57•	.037		4/11/77				-	170.71w	-47.	•562		
	/10/77	_			47.41N	86.22W		•038		4/11/77					1/2.94W		•483		
	/10/77		-		48.20N	87.68W		.036		4/11/77		**			174.01w		.368		
	/10/77		-		48.60N	88.43W		.036		4/11/77					175.06W		•493		
	/10/77				48.99N	89.21W		.051		4/11/77					176.08W		•479		
	/10/77				49.37N	89.93W		.041		4/11/77					177.08W		•480		
	/10/77				49.73N	90.75W				4/11/77					179.00W		.421		
	/10/77				51.18N	93.85W	,			4/11/77					179.01E		.386		
	/10/77				52.21N	94.98W	-			4/11/77		4			176.92L		•404		
	/10/77				53.22N	96.15W				4/11/77					174.90E		•367		
	/10/77				53.73N	96.78W				4/11/77					173.91E		.349		
	/10/77				54.24N	97.41W				4/11/77					172.93E 171.95E		•345 •330		
	/10/77				54.74N 55.24N	98.06W 98.7JW		.256 .337		4/11/77 4/11/77					171.01E		.347		
	/10/77				56.26N	100.17W				4/11/77	-				169.09E		.348		
	/10/77		_		57.17N	101.83W				4/11/77					10/.16E		-		
_ ~	/10/77	_	-		57.55N	102.78₩				4/11/77					165.29E		.279		
	/10/77				58.27N	104.73W				4/11/77					164.39E		.299		
	/10/77				58.99N	106.79W				4/11/77				51.20N	162.63E		.305		
	/10/77				59.34N	107.83W				4/11/77				50.83N	161.78E		.305		
	/10/77				59.61N	108.95W				4/11/77		10:01	350	50.46N	160.97E		.321		
	/10/77				59.77N	110.18W	_			4/11/77	0350	10:06	350	50.07N	160.15E	-57.	.334		
	/10/77				59.92N	111.41W		.356		4/11/77		10:21	350	48.90N	157.86E	-60.	.246		
	/10/77				60.38N	113.79W				4/11/77	0415	10:31	350	48.11N	156.43E	-58.	.227		
	/10/77		4:25	350	60.87N	116.24W	-51.	.404		4/11/77	0425	10:41	350	47.30N	155.03E	-57.	.311		
4	/10/77	2219	4:35	350	61.37N	118.80W	-50.	.476		4/11/77	0435	10:51	350	46.46N	153.67E	-58.	•398		
4	/10/77	2229	4:45	350	61.80N	121.46W	-51.	•518		4/11/77		10:56	349	46.04N	153.00E	-56.	.461		
4	/10/77	2234	4:50	350	62.05N	122.81W	-50.	.506		4/11/77	0445	11:01	350	45.61N	152.34E	-53.	•415		
4	/10/77	2239	4:55	350	62.28N	124.17W		.460		4/11/77		11:06	350	45.16N	151.66E	-51.	•511		
4	/10/77	2259	5:15	350	63.06N	129.84W	-47.	.516		4/11/77				44.69N	150.99€	-50.	.602		
4	/10/77	2309	5:25	349	48E.E0	132.80W		.545		4/11/77				43.81N	149.65E		•611		
4	/10/77	2314A	5:30	350	63.53N	134.54W	-45.	•524		4/11/77				43.00N	148.24E		.616		
	/10/77				63.74N	137.63W	_	•529		4/11/77				42.18N	146.86E		.577		
	/10/77				63.89N	140.68W				4/11/77					145.53L		•331		
	/10/77				63.92N	142.22W				4/11/77		11:56		-	144.89E		-258		
	/10/77				63.93N	143.75W				4/11/77		-		40.11N	143.64E		•184		
	/10/77				63.92N	145.26W		•410		4/11/77					143.04E		.121		
4	/10/77	2355	6:11	350	63.89N	146.77W	<b>-</b> 50•	•462		4/11//7	0605	14:41	350	38.86N	141.85E	-55.	•119		

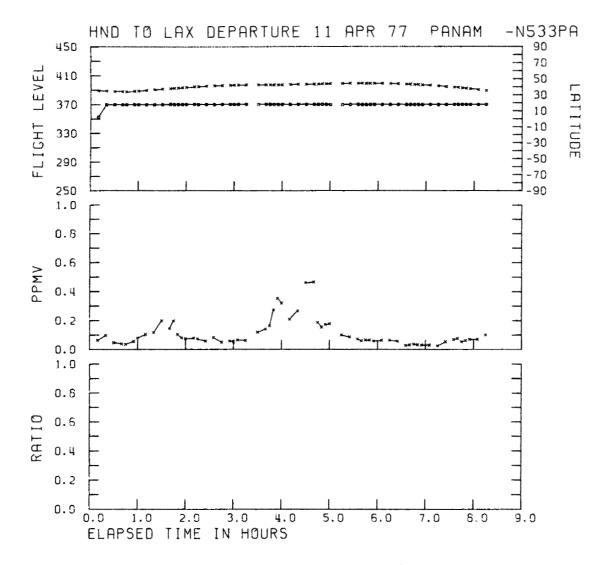
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .616 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 93
DATA SOURCE: GASP TAPE VL010, FILE 2

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MOZDAZYR GMT ETIM FL EAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

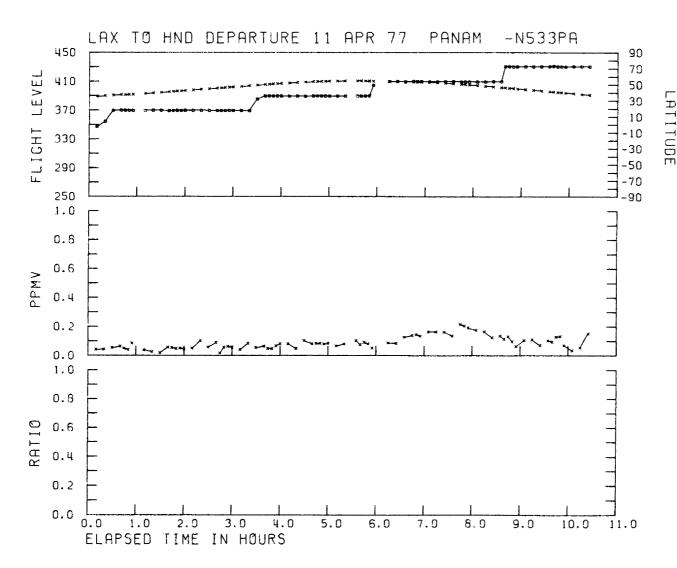
4/11/77 0615 12:31 350 37.77N 140.99E -55. .058

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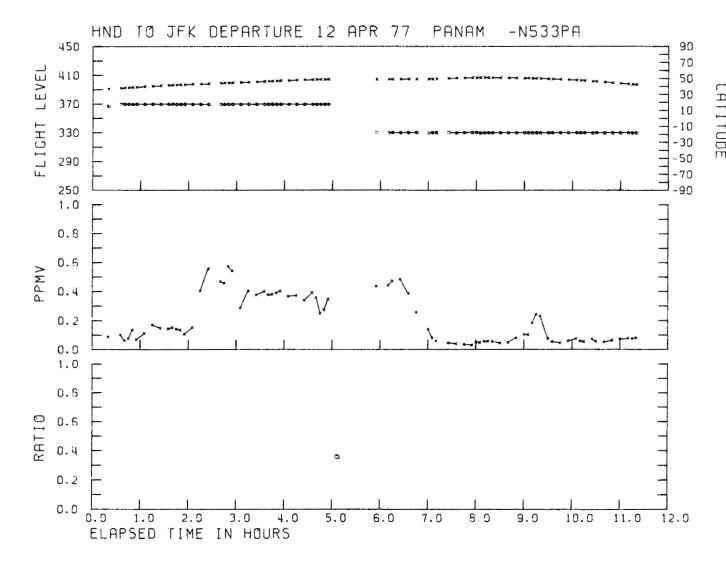
MAXIMUM VALUES: AMBIENT UZUNE=\*\*\*\*\* CABIN OZONE= .467 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 63 DATA SOURCE: GASP TAPE VL010, FILE 2

MOZDA	VYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZUNE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV CABIN AMB	0
4/11	177	0950	0:10	353	35.27N	143.08E	-55•	.063		4/11/77	1400	4:20	370	42.66N	164.62W	-50.	•268	
4/11	177	1000	0:20	370	34.95N	145.05E	-59.	.098		4/11/77	1410	4:30	370	42.86N	162.41W	-48.	.463	
4/11	./77	1010	0:30	370	34.61N	146.99E	-59.	.048		4/11/77	1420	4:40	370	43.02N	160.16W	-48.	.467	
4/11	177	1020	0:40	370	34.23N	148.91E	-58.	.039		4/11/77	1425	4:45	370	43.15N	159.04W	-48.	.187	
4/11	177	1025	0:45	370	34.03N	149.86E	-59.	.036		4/11/77	1430	4:50	370	43.30N	15/.91W	-48.	•155	
4/11	177	1035	0:55	370	34.63N	151.62E	-55.	.056		4/11/77	1435	4:55	370	43.44N	156.77w	-49.	.173	
4/11	177	1040	1:00	370	35.02N	152.50E	-54.	.080		4/11/77	1440	5:00	370	43.56N	155.63W	-50.	.178	
4/11	177	1050	1:10	370	35.78N	154.26E	-51.	.105		4/11/77	1455	5:15	370	43.86N	152.19W	-56.	.100	
4/11	1777	1100	1:20	370	36.53N	156.08E	-49.	.118		4/11/77	1505	5:25	370	44.00N	144.93W	-61.	.086	
4/11	177	1110	1:30	370	37.25N	157.91E	-49.	.199		4/11/77	1515	5:35	370	44.08N	147.71W	-61.	.072	
4/11	1777	1150	1:40	370	37.93N	159.77E	-49.	.146		4/11/77	1520	5:40	370	44.10N	146.60W	-6l.	.060	
		1125	1:45	370	38.27N	160.71E	-52•	.198		4/11/77		5:45	370	44.11N	145.51W	-60.	.065	
		1130			38.60N	161.68E	-53•	.105		4/11/77				44.12N	144.43W	-60.	.064	
		1135	1:55	370	38.94N	162.68E	-54.	.081		4/11/77		5:55	370	44.11N	143.36W	-61.	.058	
_		1140		-	39.27N	163.71E	_			4/11/77		**		44.06N	141.25W		.063	
		1150	2:10	370	34.89N	165.78E	<del>-</del> 57•	.079		4/11/77	1555	6:15	370	43.91N	139.19W		.064	
		1155			40.19N	166.84E	-58.	.073		4/11/77					137.19W			
		1205	2:25	370	40.76N	169.03E		•058		4/11/77				43.19N	135.23W		.028	
		1415			41.19N	171.27E		.083		4/11/77				43.00N	134.27W		.031	
		1225	2:45	370	41.4BN	173.58E	-58•	.051		4/11/77	1625	1 10		42.79N	133.32W		.037	
		1435			41.72N	175.90E		.059		4/11/77				42.58N	132.37W		.032	
		1240	-		41.83N	177.08E		.055		4/11/77				42.36N	131.42W			
		1245			41.92N	178.26E		.066		4/11/77		- 4	_	41.86N	129.57W		.030	
	177				42.04N	179.93W		.063		4/11/77				41.13N	127.89W		.025	
	177				42.14N	175.76W	-	.120		4/11/77				40.30N	126.32W		•053	
	177	-			42.13N	173.45W		.142		4/11/77				34.56N	124.70W		.069	
	1777				42.11N	172.32W		.165		4/11/77				39.19N	123.90W		.076	
		1330			42.07N	171.20W		.275		4/11/77				38.70N	153.51#		.053	
	177			-	42.03N	170.07W		.354		4/11/77				38.15N	122.57W		.062	
		1340			42.15N	168.98W		.321		4/11/77			100	37.59N	121.93W		.070	
4/11	177	1350	4:10	370	42.42N	166.80W	-50.	.210		4/11/77				36.37N	150.86M		.071	
										4/11/77	1755	8:15	370	35.18N	119.78W	-60.	.101	



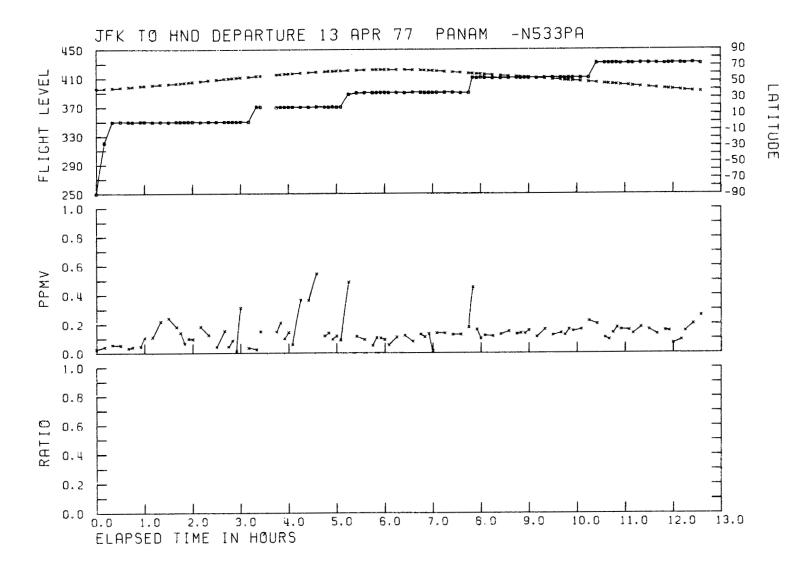
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .217 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 78 DATA SOURCE: GASP TAPE VL010, FILE 2

DAIA 30	OKCE - C	INDI INI	L V.	_0109 11	L												
MOZDAZY	R GMT	ETIM HR:MN	FL	LAT	LONG	-	OZONE (PPMV) CABIN AMB.	RATIO	MOZDAZYŔ	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPM) CABIN AME	TIO
4/11/7	7 2229	0:10	347	35.17N	120.07W	-57•	.043		4/12/77	0329	5:10	390	54.71N	166.05W	-47.	.068	
4/11/7	7 2239	0:20	354	36.08N	120.99w	-59•	.044		4/12/77	0339	5:2U	90E	54.89N	168.24W	-46.	.080	
4/11/7	7 2249	0:30	370	36.90N	122.00w	-63•	• 055		4/12/77	0354	5:35	390	54.90N	171.56W	-48.	.104	
4/11/7	7 2259	U:40	370	37.32N	123.44W	-63•	.064		4/12/77	0359	5:40	390	54.82N	172.67W	-48.	.076	
4/11/7	7 2304	0:45	370	37.49N	124.21W	-62•	.050		4/12/77	0404	5:45	390	54.72N	173.77W	-48.	.092	
4/11/7		0:50	370	37.66N	124.99W	-61.	.041		4/12/77	0409	5:50	390	54.62N	174.88W	<b>~49</b> .	.081	
4/11/7	7 2314	0:55	370	37.82N	125.75W	-61.	.085		4/12/77	0414	5:55	405	54.51N	175.98W	-50.	.053	
4/11/7		1:10	370	458.8E	127.66W	-62•	.040		4/12/77	0434	6:15	410	54.00N	179.66E	-5l.	.088	
4/11/7		1:20	370	39.49N	128.97W	-62.	.027		4/12/77	0444	6:25	410	53.95N	177.43E	-52.	.085	
	7 2344	1:30	370	40.20N	130.29W	-61•	.020		4/12/77	0454	6:35	410	53.87N	175.23E	-55.	.128	
	7 2359	1:40	369	41.03N	131.49W	-60.	.058		4/12/77	0504	6:45	410	53.74N	173.06E	-57.	.140	
4/12/7				41.42N	132.09W	-61•	.056		4/12/77	0509	6:50	410	53.66N	171.96E	-58.	.147	
4/12/7				41.82N	132.70W	-60.	.049		4/12/77	0514	6:55	410	53.58N	170.86E	-57.	.136	
4/12/7				42.22N	-	-60.	.052		4/12/77		7:05	410	53.15N	168.80E	<b>-</b> 5₫•	.166	
4/12/7				42.02N					4/12/77					166.89E			
4/12/7				43.40N					4/12/77					165.02E			
	7 0039			44.17N	-		a contract of the contract of		4/12/77					163.20E			
4/12/7				44.91N	137.91W				4/12/77					161.45E			
4/12/7				45.63N					4/12/77					160.61E			
4/12/7				45.97N					4/12/77					159.80E			
4/12/7				46.35N					4/12/77					158.23E		.176	
4/12/7				46.73N					4/12/77					150.77E		.166	
A 4/12/7					141.94W				4/12/77					155.35E			
3 4/12/7				47.89N					4/12/77					153.99E			
4/12/7				48.69N	144.91W				4/12/77					153.34E			
4/12/7				49.47N					4/12/77					154.69E			
4/12/7				50.24N	148.22W				4/12/77					152.04E			
4/12/7				50.61N	149.06W				4/12/77					151.41E		.064	
4/12/7					149.94W				4/12/17			_		150.17E		.106	
4/12/7					150.85W				4/12/77					148.95E		.111	
4/12/7				51.63N	151.78W				4/12/77					14/.74E		.071	
4/12/7				52.25N	153.66W				4/12/77					146.65E		.104	
4/12/7				52.83N					4/12/77					146.10E		.095	
4/12/7				53.38N	157.55W				4/12/77					145.56E		.129	
4/12/7				53.90N	159.58W		.082		4/12/77					145.03E		.132	
4/12/7				54.09N					4/12/77					144.49E		.070	
4/12/7				54.23N					4/12/77					143.43E		.035	
4/12/7				54.37N					4/12/77					142.41E		.054	
4/12/7	7 0319	5:00	390	54.49N	163.87W	-47.	.085		4/12/77	0844	10:25	431	37.37N	141.32E	-58.	.152	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .573 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 78 DATA SOURCE: GASP TAPE VL010, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

	MO/DA/YR	GMT	ETIM	E1	LAT	LONG	TEMP	OZONE (PPMV)	OITAG	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (pPMV)	PATIO
	MO/DA/IK	Ont	HR:MN	, ,	LMI	LUNU	(C)	CABIN AMB.	KA 110	HOY DAY IN	OHI	HRIMN	, ,	LNI	-0110	(C)	CABIN AMB.	MATTO
	4 413 433	1 2 2 0	0.30	267	27 624	144 005		0.00		4 (12 477	1920	4.14	220	48.98N	130 400	-40	4. <b>7</b> .0	
	4/12/77 4/12/77				37.03N 38.01N	144.09E		.089 .100		4/12/77 4/12/77				49.12N	139.40W		.472 .483	
	4/12/77	-			38.31N	146.88E 147.80E		.062		4/12/77		44 4 5 5		49.22N	134.89W		•386	
	4/12/77				38.60N	147.80E		•076		4/12/77					132.65W		.257	
	4/12/77				38.90N	149.67E		.136		4/12/77				49.26N	129.33W		.141	
	4/12/77	-			39.21N	150.61E		.069		4/12/77				49.25N	128.22W		.080	
	4/12/77				39.85N	152.49E		.111		4/12/77				49.47N	127.09W		•058	
	4/12/77	-			40.44N	154.36E		.170		4/12/77				50.05N	123.65W		•045	
	4/12/77				40.99N	156.23E		.148		4/12/77				50.37N	121.40W		.039	
	4/12/77				41.50N	158.08E		.144		4/12/77				50.64N	119.11W		.035	
	4/12/77				41.74N	159.00E		.152		4/12/77					116.83W		.030	
	4/12/77				41.97N	159.94E		.142		4/12/77				50.96N	115.68W		.048	
	4/12/77				42.20N	160.87E		.135		4/12/77				51.05N	114.55W		.047	
	4/12/77				42.42N	161.81E		.107		4/12/77		-			113.42W		.056	
	4/12/77				42.84N	163.70E		152		4/12/77				51.03N	112.30W		.056	
	4/12/77				43.23N	165.64E		405		4/12/77				50.98N	111.18W		.055	
	4/12/77				43.58N	167.57E		.558		4/12/77				50.91N	109.00W		.044	
	4/12/77					170.45E		.470		4/12/77				50.81N	106.85W		.048	
	4/12/77				44.31N	171.38E		.458		4/12/77				50.66N	104.73W		.080	
	4/12/77				44.53N	172.33E		.573		4/12/77		9:04	330	50.49N	102.62W		.104	
	4/12/77					173.30E		.543		4/12/77		9:09	330	50.38N	101.55W		.103	
	4/12/77	1515				175.25E		.287		4/12/77		9:14	330	50.25N	100.48W	-54.	.184	
Þ	4/12/77	1525	3:15	370	45.51N	177.24E	-52.	.403		4/12/77	2129	9:19	330	50.12N	99.41W	-55.	.243	
29	4/12/77	1535	3:25	370	45.85N	179.30E	-52.	.377		4/12/77	2134	9:24	330	49.97N	98.31W	-56.	.233	
	4/12/77	1545	3:35	370	46.30N	178.58W	-54.	.400		4/12/77	2144A	9:34	330	49.62N	96.05W	-56.	.076	
	4/12/77	1550	3:40	370	46.55N	177.50W	-54.	.378		4/12/77	2149	9:39	330	49.44N	95.00W	-56.	.055	
	4/12/77	1555	3:45	370	46.79N	176.39W	-54.	.380		4/12/77	2159	9:49	330	49.06N	92.91W	-55.	.045	
	4/12/77	1600	3:50	370	47.02N	175.27W	-55.	.391		4/12/77	2209			48.64N	90.85W	-55.	•059	
	4/12/77	1605	3:55	370	47.24N	174.14W	-55•	.403		4/12/77	2219	10:09	<b>3</b> 30	48.04N	88.97w	-54.	.075	
	4/12/77			-	47.65N	171.84W	<b>-5</b> 5•	.367		4/12/77				47.77N	87.97W		.058	
	4/12/77				48.02N	169.46W		.372		4/12/77		10:19			87.03W		.054	
	4/12/77				_	167.05W	-53.	.340		4/12/77		10:29			85.11W		.072	
	4/12/77	-	4:35	370	48.59N	164.62W	-54.	.391		4/12/77		10:34			84.21W		•056	
	4/12/77				48.71N	163.38W	-	.358		4/12/77		10:44			82.50W		.052	
	4/12/77				48.80N	162.14W		.250		4/12/77		10:54			80.89W		.063	
	4/12/77					160.90W		.274		4/12/77		11:04			79.26W		.072	
	4/12/77				48.95N	159.66W		. 346		4/12/77		11:14			77.56W		.077	
	4/12/77				49.03N	143.91W		.437		4/12/77		11:19			76.68W		.075	
	4/12/77	1824	6:14	330	48.95N	140.49W	-49•	.441		4/12/77	2334	11:54	<del>1</del> 30	42.33N	75.84W	-52.	.080	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .545 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 98 DATA SOURCE: GASP TAPE VL010, FILE 2

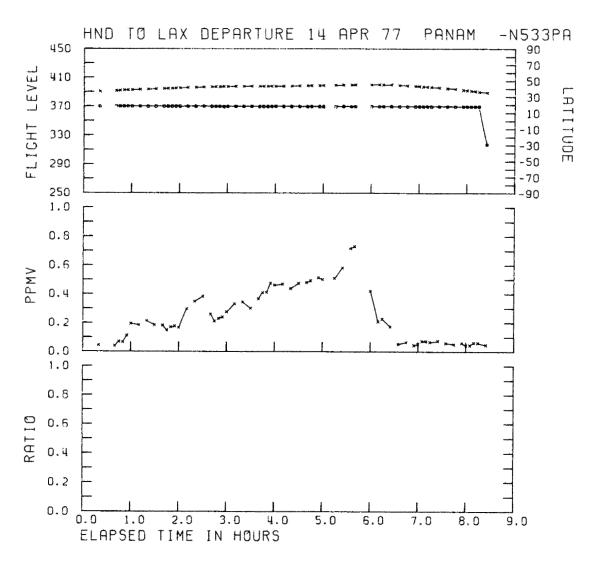
МО	/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (	RATIO
4.	/13/77	1724	0:00	213	41.24N	74.19W	-23.	.025		4/13/77	2324	6:00	390	64.78N	144.57W	-47-	.091	
	/13/77				41.68N	75.57W				4/13/77					146.19W		.054	
	/13/77				42.16N	77.06W				4/13/77			19. 1		149.43W		.107	
	/13/77				42.85N	78.40W				4/13/77					152.65W		.120	
	/13/77				43.63N	79.66W				4/13/77					155.87W		.078	
4,	/13/77	1809			44.03N	80.28W	-			4/14/77		6:45	390	64.09N	159.01W	-52.	.128	
4,	/13/77	1819	0:55	350	44.81N	81.55W	-59.	.046		4/14/77	0014	6:50	390	63.91N	160.51W	-53.	.110	
4,	/13/77	1824	1:00	350	45.20N	82.19W	-59.	.106		4/14/77	0019	6:55	390	63.62N	161.89W	-52.	.132	
	/13/77				45.96N	83.51W	<b>~</b> 57•	.111		4/14/77	0024	7:00	390	63.30N	163.24W	-53.	.013	
	/13/77				46.64N	84.91W	-			4/14/77					164.55W		.137	
	/13/77	-	-		47.23N	86.46W				4/14/77					167.09W		.136	
	/13/77	_	-		47.81N	88.12W				4/14/77					169.47W		.126	
	/13/77				48.25N	88.80W				4/14/77					171.74W			
	/13/77				48.74N	89.42W		•		4/14/77					173.94W		.177	
	/13/77				49.23N	90.06W				4/14/77					174.99W		•452	
	/13/77				49.71N	90.71W				4/14/77					176.01W		.162	
	/13/77 /13/77				50.65N	92.01W				4/14/77					177.03W		.098	
	/13/77				51.58N 52.48N	93.37W				4/14/77					178.02W		.120	
	/13/77				53.38N	94.79W 96.26W				4/14/77 4/14/77					179.85W 178.10E		.115 .128	
	/13/77				53.82N	97.02W				4/14/77					176.08E		.149	
	/13/77				54.25N	97.80W				4/14/77					174.11E		.131	
	/13/77				54.68N	98.59W				4/14/77					173.14E		.136	
2.	/13/77				55.10N	99.40W	-			4/14/77					172.22E		.134	
	/13/77		-		55.92N	101.06W				4/14/77			-		171.28E		155	
	/13/77				56.73N	102.81W				4/14/77		-			169.41E		.110	
	/13/77				57.12N	103.69W				4/14/77	-				167.48E		.162	
4,	/13/77	2109			58.61N					4/14/77					165.60E		.123	
4,	/13/77	2114	3:50	370	58.97N	108.44W	-59•	.210		4/14/77	0304	9:40	410	51.70N	163.80E	-55.	.137	
4,	/13/77	2119	3 <b>:5</b> 5	370	59.32N	109.47W	-58.	.100		4/14/77	0309	9:45	410	51.34N	162.93E	-55.	.124	
4,	/13/77	2124	4:00	370	59.68N	110.55W	-57•	.143		4/14/77		9:50	410	50.96N	162.08E	-56.	.163	
4,	/13/77	5159	4:05	370	60.03N	111.68W	-53•	.058		4/14/77		9:55	410	50.59N	161.25E	-57.	.151	
	/13/77				60.72N	114.04W				4/14/77					159.66E		.162	
	/13/77				61.36N	116.47W				4/14/77					158.13E		.221	
	/13/77				61.95N	119.02W				4/14/77			-		156.66E		.200	
	/13/77				62.51N	121.70W		,		4/14/77			4 5		155.25E		.106	
	/13/77				62.76N	123.06W				4/14/77		-			154.56E		.092	
	/13/77				63.01N	124.47W				4/14/77					153.88E		.139	
	/13/77		-		63.24N	125.90W		A CONTRACTOR OF THE CONTRACTOR		4/14/77					153.21E		.176	
	/13/77				63.45N	127.33W				4/14/77		-	4 4		152.57E		.162	
	/13/77				63.84N	130.28W				4/14/77					151.31E		.158	
	/13/77		-		64.16N	133.34W				4/14/77					150.69E		.135	
	/13/77 /13/77				64.43N	136.48₩				4/14/77 4/14/77					149.47E		.178	
	/13/77	-			64.62N	139.68W				4/14/17							.162	
	/13/// /13/77					141.32W				4/14/11							.129	
4,	12/11	5313	5:55	390	04./5N	142.95W	-41.	.102		4/14/11	0514	11:20	+30	41.04N	143.985	-50.	.155	

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JFK TO HND (PAGE 2 OF 2) DEPARTURE: 13 APR 77	AIRCRAFT: PANAM -N-33PA
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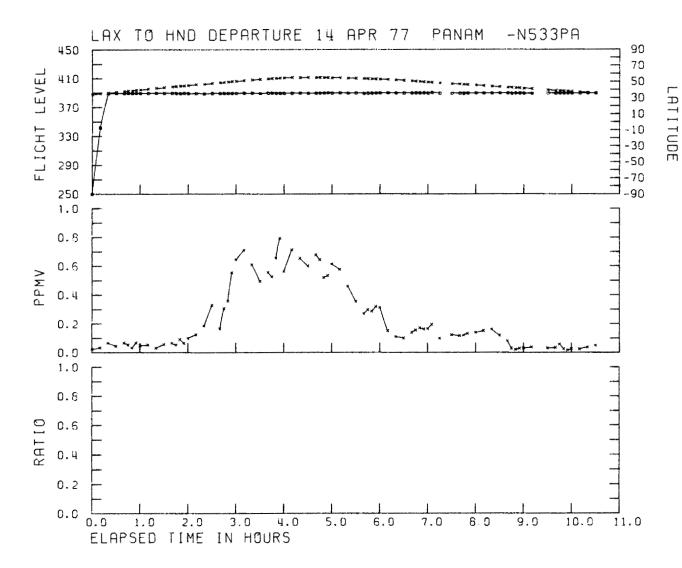
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .545 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 98 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) (C) CABIN AMB.	RATIO MOZDAZYR GMT	ETÎM FL LAT HŘÎMN	LONG TEMP OZONE( PMV) RATIO
4/14/77 0524	11:55 431 40.60N 1 12:00 431 40.15N 1 12:10 431 39.26N 1	144.88E -58067	4/14/77 0549	12:25 431 37.90N	143.20E ~58152 142.12E -59200 140.97E ~60258



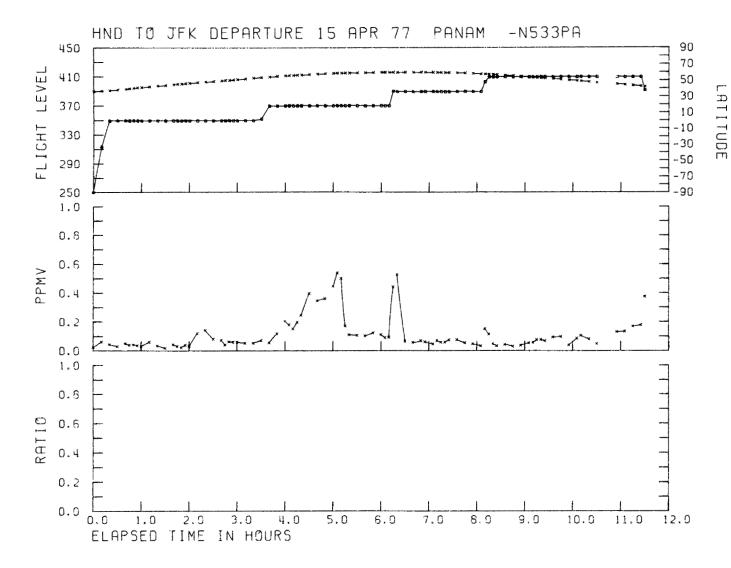
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .730 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 61 DATA SOURCE: GASP TAPE VL010, FILE 2

į	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	ĘL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO
	4/14/77					144.30E				4/14/77					169.96W			
	4/14/77				37.40N	147.86E	_	.039		4/14/77				43.22N	167.86W		•438	
	4/14/77		-		37.66N	148.79E				4/14/77					165.74W		•474	
	4/14/77		-		37.91N	149.71E				4/14/77				43.68N	163.63W		•480	
	4/14/77				38.15N	150.66E		•111		4/14/77				43.77N	162.54W		•492	
	4/14/77		-		38.37N	151.62E		.195		4/14/77				43.91N	160.33W		•514	
	4/14/77		-		38.80N	153.52E		.184		4/14/77				44.04N	159.25W		•501	
	4/14/77				39.18N	155.43E	-	4		4/14/77			-	44.44N	155.99W		•510	
	4/14/77		-	_	39.55N	157.40E		• <u>1</u> 85		4/14/77				44.66N	153.78W		•582	
	4/14/77		-		39.88N	159.38E				4/14/77				44.84N	151.57W		•717	
	4/14/77		-		40.06N	160.37E				4/14/77				44.91N	150.46W		.730	
	4/14/77				40.29N	161.33E				4/14/77					145.89W			
	4/14/77				40.52N	162.31E				4/14/77					143.56W			
	4/14/77		5:00	370	40.74N	163.30E	-61•			4/14/77	1615			45.04N	142.18W	-56.	•227	
	4/14/77		_		41.14N					4/14/77				44.95N	139.90W		.174	
	4/14/77		2:20	370	41.50N	167.22E	-59•			4/14/77	1635	6:36	370	44.41N	137.79W	-61.	.053	
	4/14/77	1559	2:30	370	41.82N	169.14E	-61•	•383		4/14/77	1645	6:46	370	43.84N	135.75W	-60.	•065	
	4/14/77	1239	2:40	370	42.11N	171.10E	-64.	•260		4/14/77	1655	6:50	370	43.26N	133.79W	-60.	.045	
	4/14/77	1244	2:45	370	42.24N	172.09E	-64.	•211		4/14/77	1700	7:01	370	42.95N	132.82W	-59.	.051	
	4/14/77	1249	2:50	370	42.36N	173.09E	-64.	.230		4/14/77	1705	7:06	370	42.64N	131.86W	-59.	.073	
	4/14/77	1254	2:55	370	42.48N	174.12E	-64.	.240		4/14/77	1710	7:11	370	42.32N	130.91W	-59.	.072	
	4/14/77	1259	3:00	370	42.58N	175.15E	-62.	.275		4/14/77	1715	7:16	370	41.99N	129.97W	-59.	•066	
>	4/14/77	1309	3:10	370	42.77N	177.24E	-61.	.332		4/14/77	1725	1:20	370	41.22N	128.18W	<del>-59.</del>	.074	
A-35	4/14/77	1319	3:20	370	42.91N	179.34E	-60.	.344		4/14/77	1735	7:30	370	40.45N	126.43W	-59.	.059	
	4/14/77	1329	3:30	370	43.00N	178.65W	-61.	.301		4/14/77	1745	7:46	370	39.68N	124.71W	-59.	•050	
	4/14/77	1339	3:40	370	43.04N	176.43W	-58•	.367		4/14/77	1755	7:56	370	38.66N	123.26W	-59.	.060	
	4/14/77	1344	3:45	370	43.05N	175.36W	-58	.409		4/14/77	1800	8:01	<b>370</b>	38.05N	122.66W	-60.	.044	
	4/14/77	1349			43.04N					4/14/77		8:06	370	37.47N	122.03W	-60.	.045	
	4/14/77		-		43.03N		_			4/14/77	-		-	36.90N	121.38W		.061	
	4/14/77	_		-	43.01N	172.13W				4/14/77				36.29N	120.79W		.061	
				•						4/14/77	_				119.60W		.046	
												~						



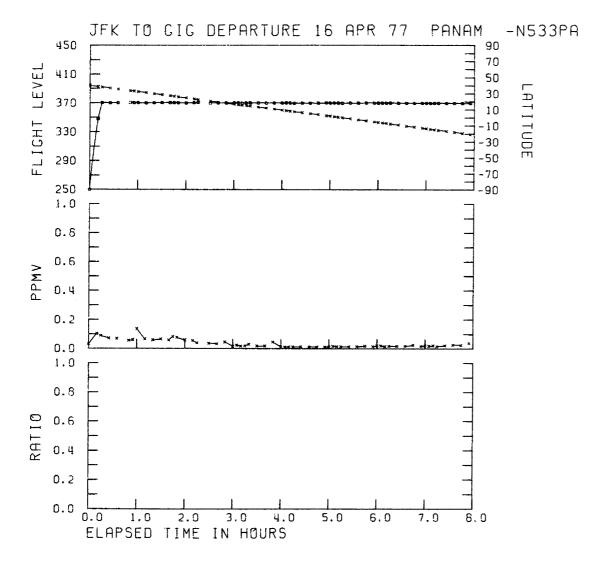
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .794 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 82 DATA SOURCE: GASP TAPE VL010. FILE 2

	DAIA SOON		731 171	_ ,,														
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZUNE (PPMV) CABIN AMB•	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE(PPMV) CABIN AMB.	RATIO
	4/14/77	2210	0:00	215	34.31N	119.24W	-23.	.023		4/15/77	0320	5:10	390	54.62N	164.86W	-57.	•577	
	4/14/77				35.15N	120.10W		.034		4/15/77				54.38N	167.06W		.460	
	4/14/77				36.14N	120.79W				4/15/77					169.26W		•355	
	4/14/77				37.12N	121.49W				4/15/77					171.39W		.271	
	4/14/77				38.12N	122.23W				4/15/77					172.44W		.297	
	4/14/77				38.61N	122.60W				4/15/77					173.49W		.287	
	4/14/77			_	39.10N	122.98W				4/15/77					174.54W		.320	
	4/14/77				39.58N	123.36W				4/15/77					175.58W		.313	
	4/14/77				40.07N	123.74W				4/15/77					177.61W			
	4/14/77				41.03N	124.56W				4/15/77					179.63W			
	4/14/77				41.98N	125.42W				4/15/77					178.47E			
	4/14/77				42.92N	126.31W				4/15/77					176.62E			
	4/14/77				43.82N	127.28W				4/15/77					175.71E			
	4/15/77	0004			44.24N	127.78W				4/15/77					174.81E			
	4/15/77	0009	1:50	389	44.66N	128.30W	-64.	.092		4/15/77	0514	6:55	390	49.76N	173.93E	-64.	.163	
	4/15/77	0014	1:55	390	45.07N	128.80W	-64.	.065		4/15/77	0519	7:00	390	49.39N	173.07E	-65.	.166	
	4/15/77	0019	2:00	389	45.48N	129.33W				4/15/77	0524	7:05	390	49.03N	172.23E	-65.	.195	
	4/15/77	0029	2:10	389	46.29N	130.41W				4/15/77	0534	7:15	390	48.30N	170.63E	-68.	.099	
	4/15/77	0039	2:20	389	47.11N	131.58W	-55.	.186		4/15/77	0549	7:30	389	47.39N	168.21E	-66.	.123	
	4/15/77	0049	2:30	389	47.96N	132.87W	-52.	.329		4/15/77	0559	7:40	389	46.81N	166.63E	-64	.117	
	4/15/77	0059	2:40	389	48.83N	134.24W	-50.	.165		4/15/77	0604	7:45	389	46.51N	165.84E	-64.	•121	
	4/15/77	0104	2:45	389	49.27N	134.96W	-49.	.306		4/15/77	0609				165.07E			
A-37	4/15/77	0109	2:50	389	49.71N	135.71W	-48.	.358		4/15/77					163.52E		.139	
37	4/15/77	0114	2:55	389	50.15N	136.49W	-47.	•554		4/15/77	0629	8:10	390	44.91N	161.98E	-61.	.152	
	4/15/77	0119	3:00	389	50.59N	137.28W	-47.	.645		4/15/77	0639				160.52E		.152	
	4/15/77	0129	3:10	390	51.46N	138.92W	-46.	.711		4/15/77	0649				159.07E		1230	
	4/15/77	0139	3:20	390	52.25N	140.71W	-44.	.609		4/15/77	0659	8:40	390	42.97N	157.65E	-66.	.080	
	4/15/77	0149	3:30	389	52.91N	142.63W	-44.	.494		4/15/77	0704	8:45	389	42.65N	156.96E	-66.	•02 <del>9</del>	
	4/15/77	0159	3:40	390	53.55N	144.64W	-44.	<b>.</b> 556		4/15/77	0709	8:50	390	42.33N	150.28E	-67.	.021	
	4/15/77				53.85N	145.66W				4/15/77					155.61E		.028	
	4/15/77				54.14N	146.69W				4/15/77					154.94E		.030	
	4/15/77				54.43N	147.74W	-45.	•794		4/15/77					153.63E		•037	
	4/15/77				54.70N	148.80W				4/15/77					150.99E		.030	
	4/15/77			-	55.04N	151.03W				4/15/77					149.68E		.033	
	4/15/77				55.09N	153.35W				4/15/77					148.98E		.057	
	4/15/77	0249				155.66W				4/15/77					148.28E		.024	
	4/15/77				55.07N	157.95W				4/15/77			-		147.59E		.016	
	4/15/77				55.03N	159.11W				4/15/77					146.91E		.024	
	4/15/77			_	54.98N					4/15/77					145.56E		.023	
	4/15/77		-		54.91N	161.42W				4/15/77					144.23E		.037	
	4/15/77	0319	5:00	390	54.82N	162.58W	-54.	.614		4/15/77	0849	10:30	390	35.82N	142.88E	-62.	.048	



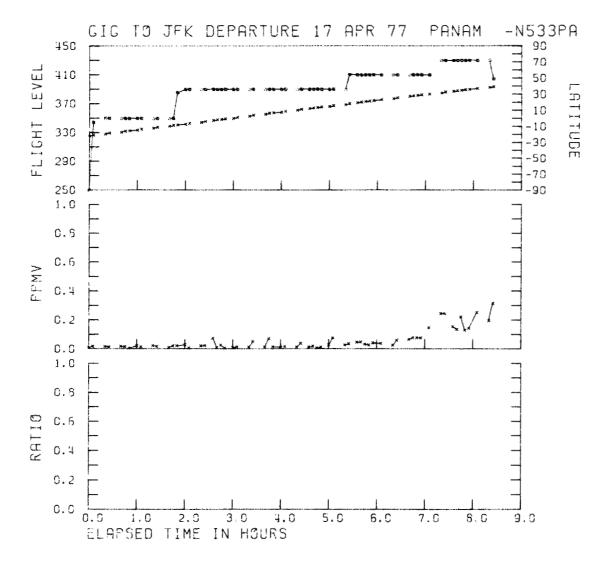
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .539 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 88 DATA SOURCE: GASP TAPE VLUIO, FILE 2

		-				_												
MO/	DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE(PPMV) CABIN AMR.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( P CABIN A	 RAT10
4.1	15/77	1207	0.00	208	35.78N	140.98E	<b>16</b> .	.024		4/15/77	1744	5:40	370	59.11N	153.17w	-51.	.102	
	15/77				36.37N	142.41E		.062		4/15/77				59.32N	150.46W		.123	
	15/77		-		37.00N	144.01E		.045		4/15/77				59.46N	14/.78W		•111	
	15/77			-	38.03N	145.27E				4/15/77				59.51N	146.42W		.090	
	15/77				39.05N	146.57E	_	.051		4/15/77		6:12	370	59.55N	145.06W		.093	
	15/77				39.56N			.040		4/15/77	1824	6:1/	990	59.58N	143.71W	-50.	.441	
	15/77				40.06N					4/15/77	1829	6:22	390	59.59N	142.34W	-48.	•526	
4/	15/77	1302	v:55	350	40.55N	148.65E	-52.	.037		4/15/17	1839	6:32	<b>390</b>	54.57N	139.60W	-49.	.065	
	15/77		1:00	350	41.06N					4/15/11	1849	6:42	390	59.60N	136.88W	-45.	.057	
4/	15/77	1317	1:10	350	42.01N	150.86E	-54.	.060		4/15/77	1859	6:52	390	59.59N	134.19W	-49.	.068	
4/	15/77	1327	1:20	350	42.91N	152.42E	-54.	.035		4/15/77	1904	6:51	390	59.56N	132.85W	-48.	.061	
4/	15/77	1337	1:30	350	43.81N	154.06E	-54.	.018		4/15/77	1914	7:07	390	54.47N	WE1.0E1	-46.	.047	
4/	15/77	1347	1:40	350	44.68N	155.74E	-55.	.043		4/15/77	1919	1:12	390	59.41N	128.76W	-46.	.070	
4/	15/77	1352	1:45	350	45.10N	156.59E	<del>-55</del> •	.031		4/15/77	1924	7:17	390	59.33N	12/.39W	-46.	• 058	
	15/77		1:50	350	45.51N	157.44E	-56.	.023		4/15/77	1929	1:46	389	54.24N	120.01W	-46.	.059	
4/	15/77	1402	1:55	350	45.91N	158.31E	-56.	.039		4/15/77	1934	1:21	389	59.13N	124.64W	-48.	.074	
4/	15/77	1407	2:00	350	46.32N	159.22E	-56.	.033		4/15/77	1944	1:31	390	58.86N	121.95W	-46.	.076	
4/	15/77	1417	2:10	350	47.15N	161.01E	<del>-</del> 58∙	.120		4/15/77	1954	7:47	390	58.50N	119.31W	-46.	.054	
4/	15/77	1427	2:20	350	47.98N	162.80E	-61.	.140		4/15/77	2004	1:51	390	58.08N	110.71W	-48.	.048	
4/	15/77	1437	2:30	350	48.78N	164.63E	-62.	.081		4/15/77	2014	8:07	390	57.62N	114.18W	-41.	.033	
4/	15/77	1447	2:40	350	49.55N	166.51E	-64.	.073		4/15/77	2019	8:12	403	57.37N	112.95W	-50.	.151	
	15/77				49.91N					4/15/77	2024	8:17	410	57.10N	111.71W	-50.	.114	
A-39	15/77	1457	2:50	350	50.27N	168.41E	-65.	.062		4/15/77	2029	8:22	410	56.83N	110.50W	-49.	• 04b	
39 4/	15/77	1502	2:55	350	50.62N	169.38E	-65.	.000		4/15/77	2034	8:21	410	56.54N	109.30W	-48.	•033	
4/	15/77	1507	3:00	350	50.99N	170.33E	-65.	.060		4/15/77	2044	8:31	410	55.93N	106.93W	-49.	.043	
4/	15/77	1517	3:10	350	51.83N	172.08E	-65.	.053		4/15/77	2054	8:41	410	55.28N	104.67W	-44.	.030	
4/	15/77	1527	3:20	350	52.64N	173.89E	-66.	.U53		4/15/77	2104	8:57	410	54.59N	102.49W	-51.	.037	
4/	15/77	1539	3:32	352	53.50N	176.23E	-67.	.071		4/15/77	2114	9:07	410	53.86N	100.37W	-52.	•054	
4/	15/77	1549	3:42	370	54.17N	178.23E	-68.	.056		4/15/77	2119	9:12	410	53.51N	44.33W	-53.	.058	
4/	15/77	1559	3:52	370	54.81N	179.74W	-69.	.118		4/15/17	2124	9:1/	410	53.15N	98.30W		.076	
4/	15/77	1609	4:02	370	55.40N	177.73W	-68.	£05.		4/15/77	2129	9:22	410	52.79N	91.29W		.078	
4/	15/77	1014	4:07	370	55.68N	176.70W	-68•	.1/8		4/15/77		9:21	410	52.41N	96.29W		•068	
4/	15/77	1619	4:12	370	55.96N	175.64W	-67.	.151		4/15/77	2144			51.0314	94.34W		• 094	
4/	15/77	1624	4:17	370	56.23N	174.56W	-67•	.196		4/15/11	2154	9:47	410	50.82N	92.45W		•097	
4/	15/77	1629	4:22	370	50.49N	173.47W	-66.	.245		4/15/77	2204	9:57	410	49.98N	90.62W	-58.	.040	
4/	15/77	1639	4:32	370	50.99N	171.20W	-66.	.396		4/15/77	2214	10:07	410	49.10N	88.83W	-65.	• 085	
4/	15/77	1649	4:42	370	57.48N	168.85W	-62.	. 346		4/15/77	2214	10:12	410	48.65N	8/.96W	-64.	.105	
4/	15/77	1659	4:52	370	57.96N	166.40W	-59.	.360		4/15/77	2229	10:22	410	47.74N	86.27W		.080	
4/	15/77	1/09	5:02	370	58.40N	163.89W	-57.	.446		4/15/77		10:32	4 I Ü	46.75N	84.69#		.048	
4/	15/77	1714	5:07	370	58.60N	162.61W	-54.	•539		4/15/77	2302	10:55	410	45.05N	81.33W	-54.	.131	
4/	15/77	1719	5:12	370	58.72N	161.29W	-54.	.501		4/15/77	2312	11:05	410	44.24N	74.60W	-57.	.134	
4/	15/17	1724	5:17	370	58.75N	159.90W	<del>-</del> 53.	.170		4/15/17	2322	11:15	410	43.4UN	71.91W	-50·	.168	
4/	15/77	1729	5:22	370	58.77N	158.51W	<b>-</b> 53•	.110		4/15/77	2332	11:20	410	42.55N	76.27w	-57.	.177	
4/	15/77	1739	5:32	370	58.85N	155.81w	-51.	.106		4/15/77	2337	11:30	392	42.08N	15.47W	-50.	.374	



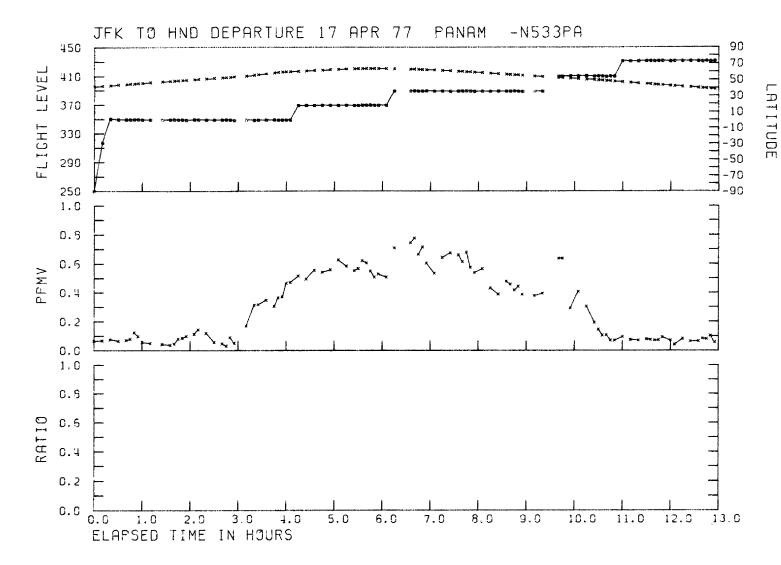
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .138 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/D	A/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RAT10
4/10	6/77	0254	0:00	217	39.73N	72.90W	-26.	.032		4/16/77	0704			7.81N	56.41W	-49.	.012	
4/10	6/77	0304	0:10	348	38.51N	71.86W	-55•	.103		4/16/77	0710	4 16	370	7.17N	56.08W	-49.	.013	
4/10	6/77	0309	0:15	370	37.84N	71.46W	-60.	•090		4/16/77	0720	4:26	370	5.98N	55.46W	-48.	.014	
4/1	6/77	0319	0:25	370	36.53N	70.70W	-61.	.072		4/16/77	0730	4:36	370	4.74N	54.91W	-49.	.014	
4/1	6/77	0329	0:35	370	35.22N	69.95W	-60.	.070		4/16/77	0740	4:46	370	3.48N	54.41W	-49.	.012	
4/1	6/77	0344	0:50	371	33.25N	68.90W	-60•	.057		4/16/77	0750	4:50	370	2.19N	53.91W	-49.	.012	
4/1	6/77	0349	0:55	370	32.60N	68.56W	-60.	.062		4/16/77	0755	5:01	370	1.56N	53.64W	-49.	.012	
4/1	6/77	0354	1:00	370	31.97N	68.23W	-60.	.138		4/16/77	0800	5:06	370	.92N	53.37W	-49.	.017	
4/1	6/77	0404	1:10	370	30.69N	67.60W	-59.	.067		4/16/77	0805	5:11	370	.28N	53.10W	-49.	•015	
4./1	6/77	0414	1:20	370	29.41N	66.98W	-58•	.061		4/16/77	0810	5:16	370	.345	52.83W	-49.	.014	
4/1	6/77	0424	1:30	370	28.12N	66.38W	-57.	.066		4/16/77	0820	5:26	370	1.625	52.40W	-49.	.014	
4/1	6/77	0434	1:40	370	26.82N	65.79W	-57.	.060		4/16/77	0830	5:30	370	2.895	51.86W	-49.	.015	
4/10	6/77	0439	1:45	370	26.18N	65.49W	-57.	.083		4/16/77	0840	5:46	370	4.165	51.32W	-49.	.018	
4/1	6/77	0445	1:51	370	25.36N	65.12W	-55.	.078		4/16/77	0850	5:56	370	5.445	50.78W	<b>~49</b> .	.015	
4/1	6/77	0454	2:00	370	24.22N	64.62W	-55•	.060		4/16/77	0855	6:01	370	6.085	50.51W	-49.	.020	
4/1	6/77	0504	2:10	370	22.90N	64.05W	-54.	.057		4/16/77	0900	6:06	370	6.725	50.24W	-49.	.020	
4/1	6/77	0512	2:18	371	21.81N	63.59W	-53.	.040		4/16/77	0905	9:11	370	7.35S	49.97W	-49.	.015	
4/1	6/77	0524	2:30	370	20.12N	62.92W	<del>-</del> 53•	.037		4/16/77	0910	6:16	370	7.995	49.70W	-49.	.018	
4/10	6/77	0534	2:40	370	18.81N	62.41W	-52•	.033		4/16/77	0920	6:26	370	9.295	49.14W	-5u.	.018	
4/10	6/77	0544	2:50	370	17.48N	61.91W	-51•	.047		4/16/77	0930	6:36	370	10.59S	48.58W.	-50.	.018	
4/10	6/77	0554	3:00	370	16.23N	61.26W	-51.	.017		4/16/77	0940	6:46	370	11.725	47.93W	-51.	•025	
4/10	6/77	0559	3:05	370	15.62N	60.91W	-50.	.024		4/16/77	0950	6:56	370	12.995	47.34W	<b>-51.</b>	.018	
A 4/10	6/77	0604	3:10	370	15.02N	60.57W	-50.	.017		4/16/77	0955	7:01	370	13.635	47.03W	-51.	.021	
<b>△</b> 4/10	6/77	0609	3:15	370	14.42N	60.23W	-50.	.019		4/16/77	1000	7:00	370	14.275	46.73W	-51.	.019	
4/10	6/77	0614	3:20	370	13.82N	59.90W	-50.	.031		4/16/77	1005	7:11	370	14.905	46.43W	-51.	.022	
4/10	6/77	0624	3:30	370	12.61N	59.21W	-50.	.019		4/16/77	1010	7:16	<b>370</b>	15.525	46.13W	<b>-51.</b>	.017	
4/10	6/77	0634	3:40	370	11.43N	58.49W	<del>-</del> 50•	.019		4/16/77	1020	7:26	370	16.77S	45.52W	-52.	.022	
4/10	6/77	0644	3:50	370	10.23N	57.78W	-49.	.047		4/16/77	1030	7:36	370	18.038	44.90W	-52.	.027	
4/10	6/77	0654	4:00	370	9.03N	57.06W	-49.	.013		4/16/77	1040	7:40	370	19.325	44.26W	-52.	•025	
4/10	6/77	0659	4:05	370	8.41N	56.73W	-49.	.012		4/16/77	1050	1:56	370	20.668	43.93W	-53.	•039	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .315 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 64 DATA SOURCE: GASP TAPE VL010, FILE 2

	MO/DA/YR	GMT		FL	LAT	LONG		OZONE (PPMV)	MO/DA/YR	GMT		FL	LAT	LONG		OZONE (		RATIO
			HR:MN				(C)	CABIN AMB.			HR: MN				(Ĉ)	CABIN	AMB.	
	4/17/77	0401	0.00	212	22.235	43.15W	-13	.008	4/17/77	0630	4:20	300	10.98N	58.19W	_====	.038		
	4/17/77				21.005	43.59W			4/17/77				12.13N	58.88W				
	4/17/77	-			19.755	44.04W			4/17/77				12.70N	59.22W				
	4/17/77				18.575	44.63W			4/17/77				13.29N	59.57W				
													13.29N					
	4/17/77				17.385	45.22W			4/17/77					59.90W				
	4/17/77				16.165	45.81W		The second secon	4/17/77	_			14.49N	60.23W				
	4/17/77				15.565	46.11W			4/17/77				15.67N	60.90W				
	4/17/77				14.955	46.40W			4/17/77	_			16.85N	61.57W				
	4/17/77		_		13.735	46.98W	-		4/17/77				18.11N	62.11W				
	4/17/77				12.505	47.56W			4/17/77	-			19.40N	62.60W				
	4/17/77	-	_		11.285	48.13W			4/17/77				20.04N	62.85W				
	4/17/77				10.055	48.68W			4/17/77				20.68N	63.10W				
	4/17/77	0350	1:49	350	8.795	49.22W	-43.	.021	4/17/77	0755	5:54	410	21.31N	63.35W	-63.	.026		
	4/17/77	0355	1:54	385	8.175	49.49W	-52•	.022	4/17/77	0800	5:59	410	21.93N	63.59W	-64.	.041		
	4/17/77	0401	2:00	390	7.56S	49.75W	-54.	.029	4/]7/77	0810	6:09	410	23.15N	64.11W	65.	.036		
	4/17/77	0410	2:09	390	6.355	50.26W	-54.	.007	4/17/77	0821	6:20	410	24.34N	64.62W	-66.	.025		
	4/17/77	0421	2:20	390	5.145	50.78W	-54.	.021	4/17/77	0830	6:29	410	25.52N	65.14W	-65.	.059		
	4/17/77	0430	2:29	390	3.945	51.29W	-54.	.023	4/17/77		6:44	410	27.26N	65.93W	~65.	.066		
	4/17/77	0440	2:39			51.82W	-54.	.074	4/17/77	0850	6:49	410	27.84N	66.20W	-63.	.078		
	4/17/77	0445	2:44	390	2.065	52.09W	-54.	.010	4/17/77	0855	6:54	410	28.42N	66.47W	-64.	.078		
	4/17/77	0450	2:49			52.36W			4/17/77				28.99N	66.73W				
	4/17/77		2:54			52.63W			4/17/77				30.14N	67.28W				
>	4/17/77		3:00			52.90W			4/17/77				31.32N	67.85W				
A-43	4/17/77		3:09			53.44W			4/17/77				32.47N	68.43W	-57.	.245		
	4/17/77		3:20			53.99W			4/17/77				33.63N	69.04W				
	4/17/77		3:29			54.49W			4/17/77				34.20N	69.34W				
	4/17/77		3:40			54.99W	,		4/17/77				34.77N	64.64W				
	4/17/77		3:49			55.58W			4/17/77			_	35.33N	69.95W				
	4/17/77		3:54			55.89W			4/17/77				35.89N	70.27W				
	4/17/77		4:00			56.20W			4/17/77				37.03N	70.92W	2.7			
	4/17/77		4:09			56.84W			4/17/77				38.14N	71.58W		-		
	4/17/77				9.84N	57.51W		and the second s	4/17/77				39.20N	72.42W				
	4/11/(/	1200	4:40	320	7.04N	2(*21M	<b>~</b> >>•	• 412	4/1///	1020	0.27	704	74 C AIA	1 C . 4 C W	-500	• 212		



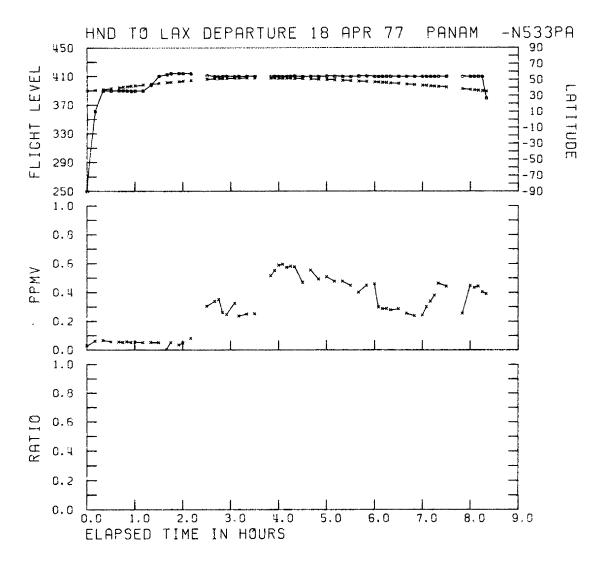
MAXIMUM VALUES: AMBIENT UZONE=\*\*\*\*\* CABIN OZONE= .776 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN:100 DATA SOURCE: GASP TAPE VL010, FILE 2

1	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZUNE (PPMV) CABIN AMB.	RATIO	MOZŅAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( PE	 RATIO
	4/17/77	1774	0.00	211	41.18N	74.42W	-20	.066		4/17/77	2221	5:57	370	63.70N	143.53W	-50.	•529	
	4/17/77				41.81N	75.54W		.068		4/17/77					146.55W		•507	
	4/17/77				42.48N	76.75W				4/17/77		***			149.56W		.708	
	4/17/77				43.24N	77.89W				4/18/77					155.38W		.744	
	4/17/77	-			43.96N	79.03W				4/18/77		6142	300	62.80N	156.82W	-50.	.776	
	4/17/77				44.32N	79.61W				4/18/77					158.25W		•665	
	4/17/77				44.68N	80.21W				4/18/77					159.65W		•714	
	4/17/77				45.04N	80.82W				4/18/77					161.04W		.604	
	4/17/77				45.40N	81.44W				4/18/77		and the same of th			163.74W			
	4/17/77				46.10N	82.69W				4/18/77	_				166.30W		•642	
	4/17/77				47.13N	84.65W				4/18/77	_		_		168.75W		.674	
	4/17/77				47.82N	86.04W				4/18/77				60.22N	171.05W		.661	
	4/17/77				48.17N	86.77W				4/18/77					172.17W		.613	
	4/17/77				48.52N	87.51W				4/18/77					173.27W		.679	
	4/17/77				48.86N	88.27W				4/18/77					174.34W		•574	
	4/17/77				49.20N	89.05W				4/18/77					175.39W		•539	
	4/17/77				49.91N	90.73W				4/18/77					177.42W			
	4/17/77				50.26N	91.60W				4/18/77					179.37W		•432	
	4/17/77				50.91N	93.32W				4/18/77					178.76E		.388	
	4/17/77				51.60N	94.95W				4/18/77					176.93E		.478	
	4/17/77				52.32N	96.65W				4/18/77					176.05E		.457	
	4/17/77				52.67N	97.54W				4/18/77					175.19E			
>	4/17/77				53.02N	98.44W				4/18/77					174.37E		.442	
A-45	4/17/77				53.34N	99.32W				4/18/77		per take a		-	173.58E		.387	
•	4/17/77				54.56N	101.77W				4/18/77					171.20E		.378	
	4/17/77				55.72N	103.14W		**		4/18/77					169.60E		.393	
	4/17/77				56.29N	103.85W				4/18/77		0	17		166.13E		.637	
	4/17/77				57.44N	105.38W				4/18/77					165.29E		•636	
	4/17/77			-	58.56N	106.98W				4/18/77					163.63E			
	4/17/77				59.12N	107.83W		i.		4/18/77					161.95E			
	4/17/77				59.62N	108.77W				4/18/77	_			-	160.41E			
	4/17/77				59.78N								-		159.00E			
	4/17/77				59.92N	111.40W				4/18/77	_				158.34E			
	4/17/77				60.42N	113.95W				4/18/77					15/.70E			
	4/17/77	2 1		-	60.93N	116.56W				4/18/77					157.08E			
	4/17/77				61.44N										156.47E			
	4/17/77				61.89N	121.94W				4/18/77	_				155.67E		.069	
	4/17/77				62.37N										154.51E		.094	
	4/17/77				62.78N	127.58W				4/18/77					153.33E		.074	
	4/17/77				63.15N										152.20E		.070	
	4/17/77				63.45N										151.09E		.078	
	4/17/77				63.57N										150.55E		.074	
	4/17/77				63.68N					4/18/77					150.03E		.070	
	4/17/77				63.71N			4				-			149.50E		.071	
	4/17/77	4.0			63.73N									-	148.98E		.092	
	4/17/77														147.98E		.069	
	7/11/11	6364	2.20	310	03.1314	141.41W	-50.	• 701		4/10///	0338	15.04	40 T	45 * 20M	141420E	~ 3 7 0	• 007	

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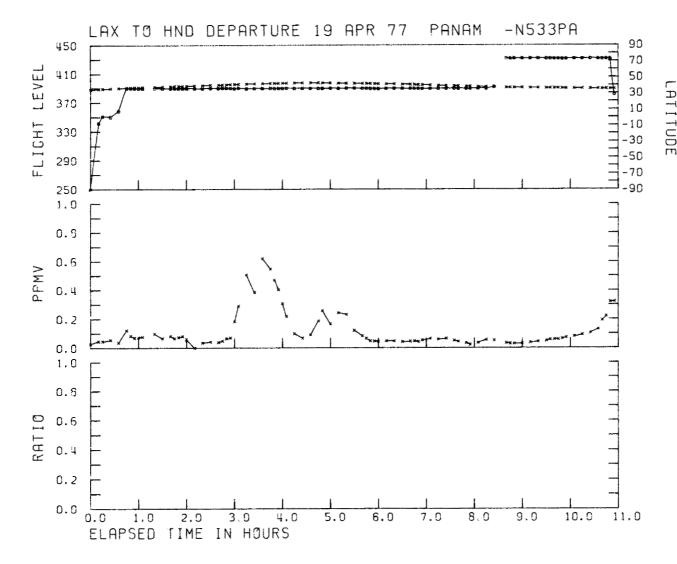
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .776 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN:100 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMR.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(SPMV) RATIO
4/18/77 0553 4/18/77 0603	12:09 431 42.20N 1 12:19 431 41.48N 1 12:29 431 40.75N 1 12:39 431 40.00N 1	146.54E -58081 145.61E -58064	4/18/77 0618 12:44 431 39.64N 4/18/77 0623 12:49 431 39.28N 4/18/77 0628 12:54 431 38.92N 4/18/77 0633 12:59 431 38.56N	143.78E -57080 143.34E -58103



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .596 RATIO (LÍMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 62 DATA SOURCE: GASP TAPE VLO10, FILE 2

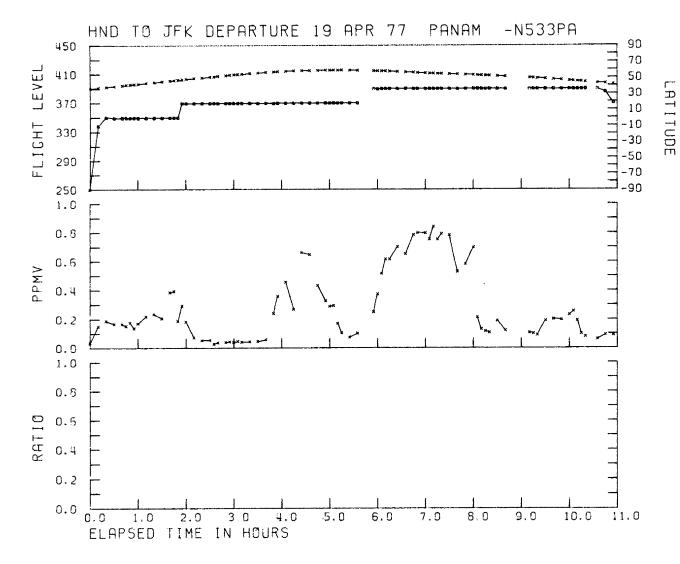
MO/DA/YR	GMT	ETIM HR:MN	FL LA	LONG		OZONE (PPMy) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	, FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	
4/18/77	1611	0:00	217 36.0	3N 141.05E	-19.	.029		4/18/77					164.42W			
4/18/77	1621	0:10	361 36.6	7N 142.96E	-48.	.062		4/18/77		4:22	410	51.42N	163.24W	-62.	•579	
4/18/77	1631	0:20	390 37.6	2N 144.74E	-52•	.067		4/18/77					160.92W			
4/18/77	1641	0:30	390 38.8	6N 146.31E	-53•	.057		4/18/,77	2053	4:42	410	50.79N	158.65W	-62.	•555	
4/18/77	1651	0:40	390 40.0	8N 147.96E	-54•	.057		4/18/77	2103	4:54	410	50.40N	156.40W	-62.	•493	
4/18/77	1656	0:45	390 40.0	8N 148.81E	-54.	.053		4/18/77	2113	5:02	410	49.97N	154.24W	-62.	.510	
4/18/77	1/01	0:50	390 41.2	BN 149.67E	-54.	.058		4/18/77	2123	5:12	410	49.52N	152.14W	-62.	.478	
4/18/77	1706	0:55	389 41.0	3N 150.55E	-54.	.053		4/18/77	2133	5:22	410	49.02N	150.08W	-61·	•478	
4/18/77	1711	1:00	390 42.	7N 151.46E	-55.	.056		4/18/77	2143	5:32	410	48.51N	148.07W	-60.	.449	
4/18/77	1721	1:10	390 43.4	IN 153.31E	-58.	.052		4/18/77	2153	5:42	410	48.00N	146.07W	-64.	•402	
4/18/77	1731	1:20	398 44.4	IN 155.21E	-60.	.054		4/18/77	2203	5:52	410	47.59N	144.06W	-66.	•450	
4/18/77	1741	1:30	410 45.	6N 157.12E	-61.	.052		4/18/77	2213	6:02	410	47.01N	142.14W	-66.	•460	
4/18/77	1751	1:40	413 46.	6N 159.07E	-66.	.006		4/18/77	2218	6:07	410	46.69N	141.18W	-70.	.298	
4/18/77	1756	1:45	414 46.	ON 160.07E	-63.	.052		4/18/77	2223	6:12	410	46.36N	140.23W	<b>-71.</b>	.288	
4/18/77	1806	1:55	414 47.0	4N 162.02E	-63•	.037		4/18/77	2228	6:17	410	46.03N	139.28W	-71.	.288	
4/18/77	1811	2:00	414 48.	9N 163.02E	-64.	.049		4/18/77	2233	6:22	410	45.70N	138.32W	-71.	.280	
4/18/77	1821	2:10	414 48.	6N 165.04E	-63.	.082		4/18/77	2243	6:32	410	45.00N	136.41W	<b>-71.</b>	.287	
4/18/77	1841	2:30	411 50.9	5N 169.19E	-64.	.306		4/18/77	2253	6:42	410	44.28N	134.54W	-71.	.257	
4/18/77	1851	2:40	410 51.	7N 171.50E	-63.	.339		4/18/77	2303	6:52	410	43.54N	132.73W	-71.	.240	
4/18/77	1856	2:45	410 51.	4N 172.71E	-63•	.352		4/18/77	2313	7:02	410	42.78N	130.96W	-70.	.245	
4/18/77	1901	2:50	410 51.4	ON 173.94E	<b>-58</b> •	.260		4/18/77	2318	7:07	410	42.39N	130.09W	-69.	.301	
4/18/77	1906	2:55	410 51.	5N 175.20E	-56.	.248		4/18/77	2323	7:12	410	42.00N	129.22W	-67.	.340	
A/18/77	1916	3:05	410 51.0	IN 177.66E	-55.	.326		4/18/77	2328	7:17	410	41.63N	128.35W	-64.	.381	
6 4/18/77	1923	3:12	410 51.4	6N 179.53E	-54.	.238		4/18/77	2333	7:22	410	41.25N	127.49W	-62.	•465	
4/18/77	1933	3:22	410 52.0	7N 177.89W	-56.	.251		4/18/77		1:32	410	40.40N	125.82W	-61.	.444	
4/18/77	1943	3:32	410 52.	ON 175.35W	-57.	.254		4/19/77	0003	7:52	410	38.36N	122.89W	-62.	.256	
4/18/77		-	410 52.					4/19/77		8:02	410	37.35N	121.52W	-61.	.448	
4/18/77			410 51.					4/19/77	-	8:07	410	36.85N	120.86W	-61.	.434	
4/18/77			410 51.					4/19/77					120.21W			
4/18/77			410 51.					4/19/77					119.61W			
4/18/77			410 51.			•		4/19/77		8122	380	35.24N	119.11W	-64.	.391	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .620 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 85 DATA SOURCE\* GASP TAPE VLOTO, FILE 2

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

										· · · · · · · · · · · · · · · · · · ·								
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LUNG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	RATIO
	4/19/77	0328	0:00	217	34.28N	119.20W	-24.	.028		4/19/77	0858	5:30	390	42.08N	169.43W	-64.	.121	
	4/19/77					120.08W				4/19/77		_	-	42.02N	169.87W		.082	
	4/19/77					120.57W				4/19/77		5:45	390	42.02N	169.87W	-63.	.065	
	4/19/77	0353	0:25	350	35.97N	121.92W	-60•	.055		4/19/77	0918	5:50	390	41.80N	172.90W	-63.	.047	
	4/19/77	0403	0:35	358	36.35N	123.27W	-61.	.038		4/19/77		5:55	389	41.73N	173.75W		.046	
	4/19/77	0413	0:45	390	36.71N	124.58W	-67.	.122		4/19/77		6:00	389	41.65N	174.62W	-64.	.044	
	4/19/77	-				125.26W				4/19/77				41.47N	176.35W		.047	
	4/19/77					125.94W				4/19/77				41.26N	178.09W		.047	
	4/19/77					126.62W				4/19/77					179.83W			
	4/19/77				37.39N	127.30W				4/19/77					178.45E		.044	
	4/19/77					129.40W				4/19/77		- 7			177.58E		-	
	4/19/77				38.20N					4/19/77					176.73E		.041	
	4/19/77					132.23W				4/19/77					175.90E		.052	
	4/19/77					132.96W				4/19/77					174.22E		.064	
	4/19/77					133.69W				4/19/77				39.60N 39.22N	172.55E			
	4/19/77 4/19/77					134.43W 135.18W				4/19/77 4/19/77				38.89N	170.91E 169.29E			
	4/19/77					136.70W				4/19/77				38.76N	168.48E			
	4/19/77					138.23W				4/19/77				38.48N	166.91E		.034	
	4/19/77					139.79W				4/19/77				38.34N	166.13E			
	4/19/77				40.32N					4/19/77				38.03N	164.58E			
	4/19/77					142.09₩				4/19/77				-	163.08E			
>	4/19/77				40.67N					4/19/77				37.38N	101.60E			
7	4/19/77		-		40.84N					4/19/77					159.44E			
	4/19/77				41.00N					4/19/77					158.73E			
	4/19/77				41.16N					4/19/77		8:50	431	36.87N	158.05E			
	4/19/77	-				146.85W				4/19/77				36.76N	156.68E	-62.		
	4/19/77				41.78N	148.53W				4/19/77		9:10	431	36.64N	155.37E	-62.	.037	
	4/19/77									4/19/77		9:20	431	36.51N	154.06E	-60.	.043	
	4/19/77	0713	3:45	390	42.28N	152.04W	-54.	.548		4/19/77	1258	9:30	431		152.77E			
	4/19/77	0718	3:50	390	42.38N	152.89W	-59.	.471		4/19/77	1303	9:35	431	36.29N	152.13E	-60.	.057	
	4/19/77	0723	3:55	390	42.48N	153.74W	-60.	.403		4/19/77		9:40	431		151.51E		.059	
	4/19/77	0728				154.56W				4/19/77					150.89E			
	4/19/77					155.38W		.218		4/19/77					150.28E		.064	
	4/19/77					156.98W		.099		4/19/77				35.97N	149.34E		.072	
	4/19/77					158.59W	-67•			4/19/77					148.05E		.080	
	4/19/77					159.91W				4/19/77					146.77E		.091	
	4/19/77					161.81W				4/19/77					145.49E		.104	
	4/19/77				42.82N	162.65M				4/19/77				35.59N	144.18E		.130	
	4/19/77					164.30W				4/19/77					143.52E		.192	
	4/19/77	-			42.51N	165.97W				4/19/77				35.47N	142.88E		.220	
	4/19/77	0848	5:20	390	42.31N	167.67W	-63•	.231		4/19/77				35.39N	142.21E		.320	
										4/19/77	1425	10:57	281	32.33N	141.56E	-50.	.322	

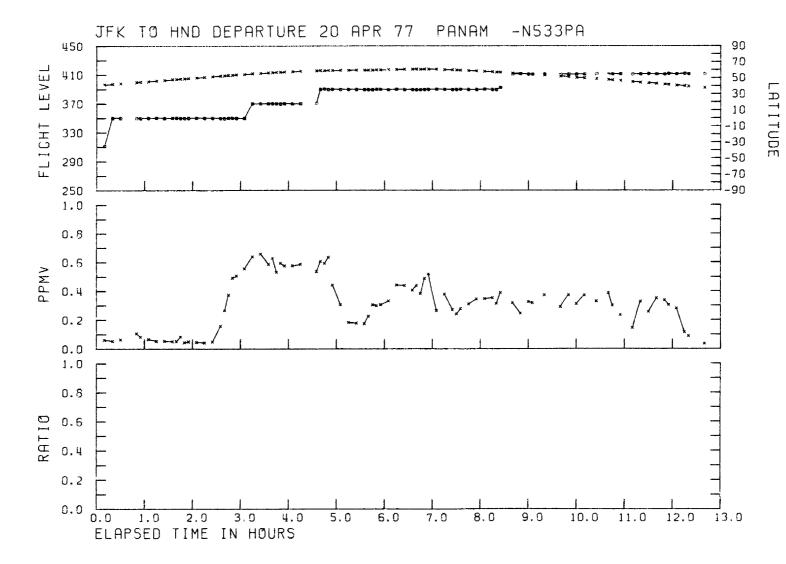


MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .840 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 84

DATA SOURCE: GASP TAPE VL010, FILE 2

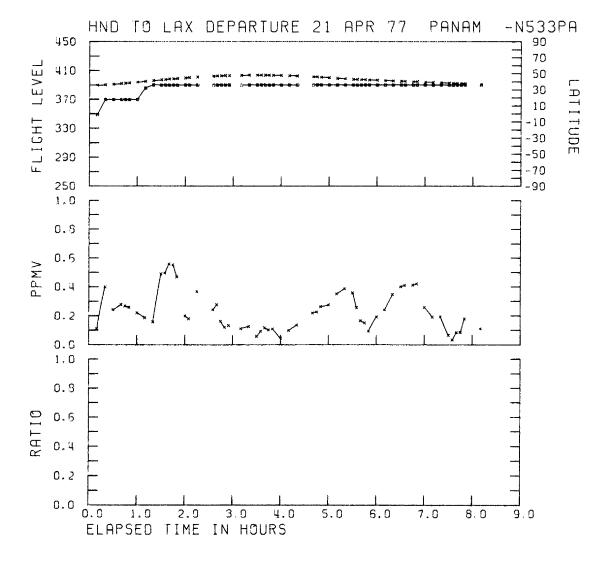
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

	•							· · · · · · ·	- · · <del>-</del>								
	MO/DA/YR	GMT	ETIM F HR:MN	L LAT		TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(	RATIO
	4/19/77	1630	0:00 21	4 36.27N	141.01E -	-20-	.035		4/19/77	2147	5:17	370	59.23N	147.09W	-62.	.103	
	4/19/77			8 37.26N	142.53E -		.150		4/19/77					144.40W		.074	
	4/19/77			0 38.28N	144.17E -				4/19/77					141.75W			
	4/19/77			9 39.28N	145.87E -				4/19/77					136.45W			
	4/19/77			0 40.24N					4/19/77		6:02	389	58.20N	135.11W	-60.	.373	
	4/19/77	1715	0:45 35	0 40.71N	148.48E -	-52	·153		4/19/77	2237	6:07	390	58.01N	133.88W	-59.	.516	
	4/19/77	1720			149.39E -				4/19/77	2242	6:12	390	57.84N	132.61W	-60.	.616	
	4/19/77	1725	0:55 35	0 41.66N	150.29E -	-49.	.i37		4/19/77	2247	6:17	390	57.63N	131.33W	~58.	.616	
	4/19/77	1730	1:00 34	9 42.18N	151.16E -				4/19/77	2257	6:27	390	57.18N	128.81W	-55.	.701	
	4/19/77	1740	1:10 35	0 43.17N	152.92E -	-48•	.219		4/19/77	2307				126.36W		.652	
	4/19/77	1750	1:20 35	0 44.17N	154.78E -	-46.	.236		4/19/77	2317	6:47	390	56.15N	124.00W	-51.	.784	
	4/19/77	1800	1:30 35	0 45.16N	156.77E -	-46.	.207		4/19/77					122.84W		.798	
	4/19/77			0 46.13N	158.83E -				4/19/77	2332				120.53W		•797	
	4/19/77				159.91E -				4/19/77					114.38M			
	4/19/77	-			160.99E -				4/19/77					118.25W			
	4/19/77			0 47.63N					4/19/77					117.12W			
	4/19/77				163.20E -				4/19/77					115.93W		.790	
	4/19/77				165.45E -				4/20/77					113.65W			
	4/19/77			0 49.97N					4/20/77					111.35W			
	4/19/77				170.09E -				4/20/77					109.08W			
	4/19/77				171.19E -				4/20/77					106.86W		.697	
_	4/19/77				172.13E -				4/20/77					105.77W		.213	
5	4/19/77				174.36E -				4/20/77					104.70W		.129	
ω	4/19/77			0 53.16N					4/20/77					103.63W		.116	
	4/19/77				176.72E -				4/20/77					102.58W		.107	
	4/19/77				177.94E -				4/20/77					100.52W		.190	
	4/19/77	_			179.16E -				4/20/77 4/20/77				50.97N 49.60N	98.51W 92.39W		.121 .106	
	4/19/77				178.32W -				1, -,				49.00N	91.42W		.100	
	4/19/77 4/19/77				175.71W -				4/20/77 4/20/77				49.00N	90.50W	-	.090	
	4/19/77			0 56.55N	172.52W -		.057 .239		4/20/77				48.34N	88.73W		.190	
	4/19/77			0 57.33N	168.78W -				4/20/77				47.67N	87.04W		.202	
	4/19/77			0 57.83N	166.24W -				4/20/77				46.99N	85.40W		.197	
	4/19/77			0 58.32N					4/20/77				46.14N	83.77W		.232	
	4/19/77			0 58.54N					4/20/77				45.75N	83.03W		.255	
	4/19/77			0 58.56N					4/20/77				45.38N	82.27W		.192	
	4/19/77				155.22W -				4/20/77				45.01N	81.53W		.100	
	4/19/77				152.56W ·				4/20/77		10:22			80.79W		.080	
	4/19/77			0 59.06N					4/20/77		10:37			78.88W		.062	
	4/19/77				149.86W -				4/20/77		10:47	-		77.21w		.091	
	4/19/77	_			148,48W -				4/20/77		10:57			75.53W		•090	
	7/17/11	£ 172	3.15 31	0 3201311	140 040 11 -	02.	• 1 • 0		4/20/11	0361	10.01	J. U	- C - U J   Y	120734	0 L •	• 0 > 0	



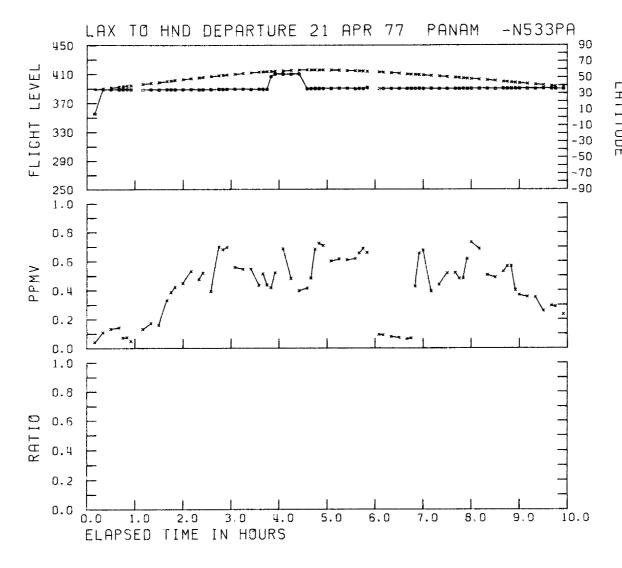
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .658 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 86
DATA SOURCE: GASP TAPE VL010, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	ĻAT	LONG		OZONE( CABIN	RAT10
	4/20/77	1810	0:10	311	41.92N	75.62W	-49.	.061		4/20/77	2355	5:55	390	60.05N	143.90W	-58.	•305	
	4/20/77	1820	0:20	350	42.61N	77.02W	-59.	.055		4/21/77	0005	6:05	389	60.31N	146.46W	-60.	.331	
	4/20/77	1830	0:30	350	43.38N	78.46W		.065		4/21/77	0015	6:15	390	60.52N	144.10W	-56.	.442	
	4/20/77	1850	0:50	350	44.87N	81.39W	-58•	.108		4/21/77	0025	6:25	389	60.68N	151.82W	-55.	.438	
	4/20/77	1855	0:55	350	45.22N	82.13W	-57•	.083		4/21/77	0035	6:35	389	60.78N	154.54W	~51.	•407	
	4/20/77	1905	1:05	350	45.91N	83.62W	<del>-</del> 56•	.068		4/21/77		6:40	389	60.81N	155.90W	-51.	•439	
	4/20/77		1:15	350	46.58N	85.17W	<b>-</b> 56∙	.054		4/21/77		1.1.4	,		157.25W		.383	
	4/20/77		1:25	350	47.28N	86.65W	<b>-</b> 55•	.055		4/21/77					158.61W		.488	
	4/20/77				48.08N	88.01W	-56•	.051		4/21/77					159.97W		•519	
	4/20/77		1:40	350	48.49N	88.72W	<b>-</b> 57∙	.053		4/21/77					162.67W		.263	
	4/20/77				48.88N	89.43W				4/21/77					165.28W		.378	
	4/20/77				49.27N	90.15W				4/21/77					167.75W			
	4/20/77				49.66N	90.89W				4/21/77					169.55W			
	4/20/77				50.43N	92.41W				4/21/77					170.95W		•278	
	4/20/77				51.17N	93.98W				4/21/77					173.29W		.311	
	4/20/77				51.90N	95.59W				4/21/77					175.54W		•345	
	4/20/77				52.59N	97.23W				4/21/77					177.72W		•347	
	4/20/77	_			52.92N	98.05W		and the second s		4/21/77					179.84W		•353	
	4/20/77				53.25N	98.92W		.373		4/21/77					179.14E		.316	
	4/20/77				53.60N	99.85W		.492		4/21/77					178.11E		.389	
	4/20/77				53.94N	100.80W				4/21/77					175.24E			
	4/20/77				54.63N	102.81W				4/21/77			-		173.38E		.245	
A-55	4/20/77					104.87W				4/21/77					171.63E			
Ğ	4/20/77				55.87N	106.99W				4/21/77					170.60E		.318	
	4/20/77					109.23W				4/21/77					168.41E			
	4/20/77				56.73N	110.38W				4/21/77					164.67E		.291	
	4/20/77				56.99N	111.53W				4/21/77					162.99E		.372	
	4/20/77				57.24N					4/21/77					161.13E		.312	
	4/20/77				57.48N	113.89W				4/21/77				-	159.57E			
	4/20/77				57.93N	116.31W				4/21/77					157.91E			
	4/20/77				58.33N	118.78₩				4/21/77					155.74E		.388	
	4/20/77					123.82W									154.72E		•300	
	4/20/77				59.08N	125.02W				4/21/77		-	_	-	153.94E		.234	
	4/20/77					126.30W				4/21/77				-	151.63E		.145	
	4/20/77					127.60W				4/21/77					150.36E		.327	
	4/20/77				59.34N			.442							149.43E		.257	
	4/20/77	-				131.43W									148.07E		.350	
	4/20/77					133.95W						•			146.63E		•337	
	4/20/77					136.47W									145.95E			
	4/20/77				59.53N	138.91W				4/21/77					144.72E		.280	
	4/20/77					140.14W									143.51E			
	4/20/77				59.75N	141.37₩		.305							142.93E		.089	
	4/20/77	2350	5:50	390	59.91N	142.63W	<del>-58</del> •	.299		4/21///	0641	12:41	<b>+11</b>	31.9UN	140.77E	-55.	.037	



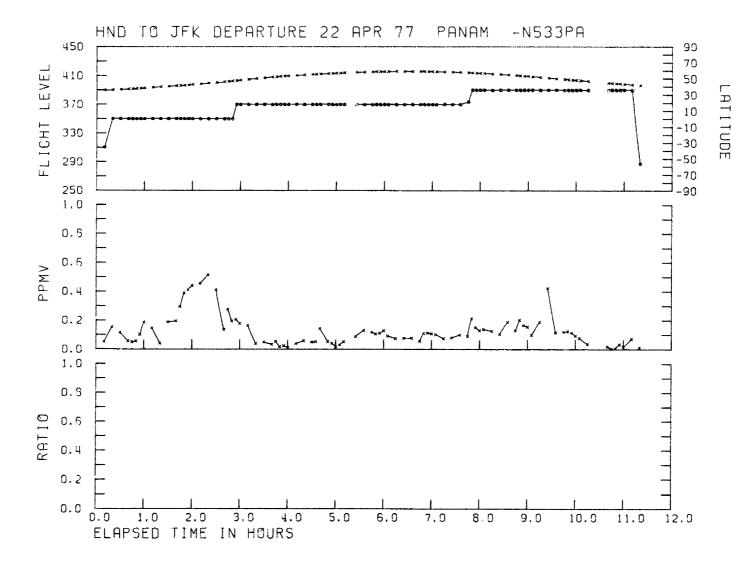
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .559 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 59 DATA SOURCE: GASP TAPE VL010, FILE 2

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LUNG		OZUNE (PPMV) CABIN AMB.	MO/na/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (PMV) CABIN AMB.	RATIO
	4/21/77	-			35.58N			•	4/21/77				48.11N	169.21W		.044	
	4/21/77				36.38N	144.20E		.401	4/21/77				47.73N	166.86W		.099	
	4/21/77				37.17N	145.84E			4/21/77	-			47.30N	164.54W		.136	
	4/21/77	_	-		37.95N	147.53E	-	.278	4/21/77				46.30N	159.98W		.219	
	4/21/77				38.33N	148.39E		• 268	4/21/77				46.02N	158.85W		•556	
	4/21/77				38.84N	149.58E		و55	4/21/77				45.74N	15/.74W		.264	
	4/21/77				39.76N			.221	4/21/77		5:02	390	45.14N	155.57W	-57.	.275	
	4/21/77				40.69N	152.97E	<b>-</b> 52•	.187	4/21/77	1541	5:12	390	44.51N	153.46W	-50.	.351	
	4/21/77		1:22	390	41.63N	154.76E	-52•	.157	4/21/17	1551	5:22	390	43.85N	151.39W	-55.	.387	
	4/21/77		1:32	390	42.54N	156.61E	-50•	.490	4/21/77	1601	5:32	390	43.19N	149.39W	-55.	.358	
	4/21/77		1:37	390	42.98N	157.55E	-49.	<b>.</b> 495	4/21/77	1605	5:37	390	43.04N	148.37W	-56.	.256	
	4/21/77		1:42	390	43.41N	158.50E	-50.	•559	4/21/77	1611	5:42	390	42.88N	147.36W	-56.	.166	
	4/21/77	1216	1:47	390	43.83N	159.45E	-49.	•553	4/21/77	1616	5:47	390	42.70N	146.37W	-55.	.150	
	4/21/17	1221	1:52	390	44.23N	160.43E	-52.	.468	4/21/77	1621	5:52	390	42.51N	145.33W	-54.	.094	
	4/21/77		2:02	390	44.95N	162.52E	-52.	•199	4/21/77	1631	6:02	390	42.10N	143.26W	-53.	.192	
	4/21/77	1236	2:07	390	45.29N	163.59E	-52.	.179	4/21/17	1641	6:12	390	41,66N	141.29W	-53.	.241	
	4/21/77	1246	2:17	390	45.95N	165.73E	-54.	.367	4/21/77	1651	6:22	390	41.21N	139.38W	-55.	.347	
	4/21/77	1306	2:37	390	47.14N	170.19E	-57.	.242	4/21/77	1701	6:32	390	40.89N	13/.44W	-54.	.401	
	4/21/77	1311	2:42	390	47.31N	171.38E	-58.	.276	4/21/77	1706	6:37	390	40.72N	136.48W	-53.	•410	
	4/21/77	1316	2:47	390	47.46N	172.57E	-59.	•161	4/21/77	1715	6:47	390	40.36N	134.60W	-55.	.412	
	4/21/77	1321	2:52	390	47.61N	173.75E	-59.	.120	4/21/77	1721	6:52	390	40.17N	133.69W	-55.	.421	
	4/21/77	1326	2:57	390	47.74N	174.93E	-62.	.132	4/21/17	1731	7:02	390	39.78N	131.90W	-58.	•259	
>	4/21/77	1341	3:12	390	48.06N	178.49E	-58.	.111	4/21/77	1741	1:12	390	39.37N	130.13W	-62.	.191	
3	4/21/77	1351	3:22	390	48.20N	179.05W	-61•	.126	4/21/77	1751	1:22	390	38.92N	128.37W	-64.	•193	
	4/21/77	1401	3:32	390	48.27N	176.58W	-63•	• Ú58	4/21/77	1801	1:32	390	38.44N	126.68W	-67.	.065	
	4/21/77	1406	3:37	390	48.28N	175.35W	-63•	.093	4/21/77	1806	7:31	390	38.20N	125.86W	-67.	.034	
	4/21/77	1411	3:42	390	48.29N	174.11W	-62.	.117	4/21/77	1811	1:46	390	38.05N	124.99W	-67.	.083	
	4/21/77	1416	3:47	390	48.27N	172.87W	-62.	.102	4/21/77	1816	1:41	390	37.92N	124.15W	-66.	.085	
	4/21/77	1421	3:52	390	48.25N	171.64W	-62.	.109	4/21/77	1821	1:52	390	37.63N	123.37W	-66.	.179	
									4/21/77	1841	8:12	390	36.30N	120.43W	-67.	.111	



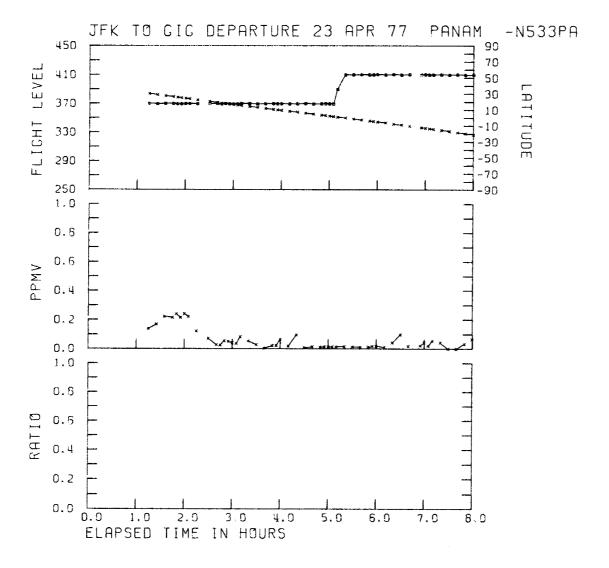
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .732 RATIO (LIMITED TO AMB. OZONE ABOVE U.1)= .00 TOTAL OBS IN CABIN: 75 DATA SOURCE: GASP TAPE VL010, FILE 2

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZUNE (PPMV) CABIN AMB.	RATIO	MOZĐAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (PPMV CABIN AMB	
	4/21/77	2231	0:10	356	35.30N	120.34W	-59.	.041		4/22/77	0327	5:06	390	58.96N	170.37w	-48.	.602	
	4/21/77	2241	0:20	389	36.42N	121.14W	-66•	.109		4/22/77	0337	5:16	390	58.67N	172.71W	-52.	•615	
	4/21/77	2251	0:30	389	37.54N	122.02W	-66.	.134		4/22/17	0347	5:26	390	58.35N	174.93W	-51.	.610	
	4/21/77	2301	0:40	389	38.65N	122.93W	-65•	.142		4/22/77	0357				177.19W			
	4/21/77		0:45	389	39.21N	123.40W	-66•	.073		4/22/17					178.30W			
	4/21/77		0:50	390	39.77N	123.88W	-67•	.076		4/22/77					179.41W			
	4/21/77	2316	0:55	389	40.33N	124.38W	<del>-</del> 67•	.050		4/22/77	0412	5:51	391	57.31N	179.52E	-48.	•660	
	4/21/77	2331	1:10	389	42.03N	125.93W	-66.	.132		4/22/77	0427	6:06	390	56.40N	176.50E	-45.	.095	
	4/21/77	2341	1:20	389	43.15N	127.01W	-63•	.172		4/22/77	0432	6:11	390	56.08N	175.52E	-44.	.091	
	4/21/77	2351	1:30	389	44.29N	128.16W	-60·	.160		4/22/77	0442	6:21	390	55.41N	173.62E	-43.	.079	
	4/22/77	0001	1:40	389	45.42N	129.36W	<del>-</del> 57•	.331		4/22/77	0452	6:31	390	54.72N	171.78E	-43.	.073	
	4/22/77	0006	1:45	389	45.98N	129.98W	-56•	.387		4/22/77	0502	6:41	390	54.00N	169.99E	-43.	.065	
	4/22/77	0012	1:51	389	46.65N	130.77W	-56•	.423		4/22/77	0507	6:46	<b>390</b>	53.68N	169.05E	-42.	.069	
	4/22/77	0022	5:01	389	47.73N	132.11W	-53•	.449		4/22/77	0512	6:51	390	53.36N	168.11E	-43 <b>.</b>	.426	
	4/22/77	0032	2:11	389	48.82N	133.55W	<del>-</del> 50•	.531		4/22/77	0517	6:56	390	53.03N	167.20E	-43.	.654	
	4/22/77	0042	2:21	389	49.88N	135.02W	-51.	.476		4/22/77	0522				166.30E			
	4/22/17	0047	2:26	389	50.40N	135.80W	-49.	.520		4/22/77	0532	7:11	<b>39</b> 0	52.01N	164.54E	-44.	.392	
	4/22/77	0057	2:36	389	51.44N	137.39W	-48.	.393		4/22/17	0542	7:21	390	51.30N	162.85E	-45.	.439	
	4/22/77	0107	2:46	390	52.45N	139.05W	-50•	.699		4/22/77	0552	7:31	390	50.56N	161.20E	-45.	•517	
	4/22/77	0112	2:51	389	52.95N	139.91₩	-52•	.681		4/22/77		7:41	390	49.79N	159.58E	-45.	.520	
	4/22/17	0117	2:56	390	53.40N	140.83W	<b>-51</b> •	•696		4/22/17	0607	7:46	390	49.39N	158.80E	-43.	.481	
	4/22/77	0127	3:06	389	54.26N	142.74W	-53•	•559		4/22/77	0612				158.03E			
A-59	4/22/77	0137	3:16	390	55.09N	144.73W	-54.	<b>.</b> 545		4/22/77	0617	7:56	<del>39</del> 0	48.57N	157.27E	-46.	.618	
59	4/22/77	0147	3:26	389	55.88N	146.75W	-54.	•546		4/22/17	0622				156.51E			
	4/22/77	0157	3:36	389	56.62N	148.85W	<b>-55</b> •	•435		4/22/77	0632	8:11	390	47.30N	155.04E	-46.	.687	
	4/22/77	0202	3:41	389	56.98N	149.93W	-54.	•Š14		4/22/77	0642	8121	390	46.44N	153.64E	-48.	•505	
	4/22/77	0207	3:46	389	57.26N	151.06w	-53•	•437		4/22/77	0652	8:31	390	45.57N	152.28E	-48.	.488	
	4/22/77	0212	3:51	407	57.53N	152.20w	-52•	.418		4/22/77	0702	B:41	<b>390</b>	44.67N	150.96E	-49.	•531	
	4/22/77	0217	3:56	410	57.78N	153.36W	-50.	•\$21		4/22/17	0707	8:46	<b>39</b> 0	44.22N	150.31E	-51.	•566	
	4/22/77	0227	4:06	410	58.26N	155.70W	-50.	•686		4/22/77	0712	8:51	390	43.77N	149.66E	-52.	•568	
	4/22/77	0237	4:16	410	58.69N	158.06W	-50.	.480		4/22/77	0717	8:56	<b>390</b>	43.31N	149.02E	-51.	.401	
	4/22/77	0247	4:26	410	59.02N	160.50W	-48.	.397		4/22/77		9:01	<b>390</b>	42.86N	148.38E	-53.	.369	
	4/22/77	0257	4:36	390	59.08N					4/22/77	0732	9:11	390	41.95N	147.16E	-55.	•355	
	4/22/77	2050	4:41	390	59.09N					4/22/77	0742	9:21	390	41.04N	145.99E	-57.	.353	
	4/22/77				59.09N	165.48W				4/22/17					144.84E			
	4/22/77				59.08N					4/22/77					143.70E			
	4/22/77		-		59.06N					4/22/77					143.13E			
										4/22/77		9159	390	37.55N	141.78E	-54.	.235	



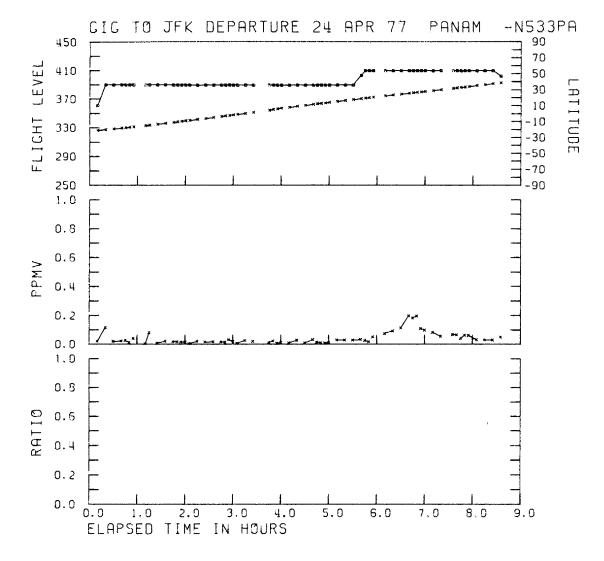
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .516 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 89
DATA SOURCE: GASP TAPE VL010, FILE 2

	DATA SOUR		MSP IMP	_ v.	_010, 11	LL 2												
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (@PMV CABIN AMB	
	4.100.177	1999	0.10	210	25 020	142.44E	-61.	.054		4/22/77	1758	5:45	370	58.82N	148.85W	-56.	•119	
	4/22/77 4/22/77					144.17E				4/22/77				58.95N	147.55W		.107	
	4/22/77	,			36.73N	145.90E				4/22/77		7			146.22W		.112	
	4/22/77					147.59E				4/22/77				59.17N	144.89W		.130	
	4/22/77					148.46E				4/22/77					143.57W	-60.	.093	
	4/22/77					149.33E				4/22/77		6:15	370	59.39N	140.91W	-61.	.074	
	4/22/77				38.09N	150.17E	-62	.102		4/22/77		6:25	370	59.43N	138.23W	-60.	.078	
	4/22/77				38.45N	150.96E	~61.	.187		4/22/77	1848	6:35	<b>370</b>	59.40N	135.61W	-60.	.078	
	4/22/77				39.17N	152.58E	-57.	.146		4/22/77	1858	6:45	370	59.32N	133.01w	-61.	•058	
	4/22/77					154.23E				4/22/77		6:50	370	59.26N	131.71W	-60.	•112	
	4/22/77		_		40.55N					4/22/77		6:55	370	59.19N	130.41W	-61.	•114	
	4/22/77					157.70E				4/22/77	1913	7:00	370	59.11N	129.11W	-61.	.109	
	4/22/77				41.54N					4/22/77		7:05	370	59.02N	127.81W	-60.	.103	
	4/22/77					159.55E	-48.	.390		4/22/77	1928				125.17W		.074	
	4/22/77				42.27N					4/22/77	1938				122.52W			
	4/22/77		2:00	350	42.74N	161.23E				4/22/77	1948				119.88W			
	4/22/77		2:10	350	43.67N	162.94E	-46.	.457		4/22/77	1958	4 10 100 1			117.30W			
	4/22/77					164.71E				4/22/77					116.03W			
	4/22/77	1443	2:30	350	45.47N	166.52E	-46.	.413		4/22/77					114.79W			
	4/22/77	1453	2:40	350	46.34N	168.44E				4/22/77					113.57W			
	4/22/77	1458			46.76N	169.40E	-48.	.278		4/22/77					112.36W			
	4/22/77	1503				170.36E				4/22/77					110.00W			
A-61	4/22/77	1508			47.79N	171.30E				4/22/77		2 . <b></b> .	* 1		107.67W			
61	4/22/17	1513	-			172.23E				4/22/77				54.88N	105.38W		.189	
	4/22/77				49.32N					4/22/77				-	103.17W			
	4/22/77					176.15E				4/22/77					102.07₩			
	4/22/77				51.26N	178.25E				4/22/77					101.01W			
	4/22/77				52.15N	179.56W				4/22/77				53.00N 52.59N	99.96W 98.92W			
	4/22/77				52.54N	178.44W				4/22/77		the second of						
	4/22/77					177.30W				4/22/77				51.75N 50.98N	96.90W 94.85W			
	4/22/77				53.29N					4/22/77			_	50.78N	92.82W			
	4/22/77					174.96W				4/22/77		7		49.45N	90.86W			
	4/22/17				54.33N	172.55W				4/22/77 4/22/77			-	49.05N	87.90M			
	4/22/77				54.95N					4/22/17			-	48.63N	88.95W			
	4/22/77				55.54N	167.67W				4/22/77				48.22N	88.03W			
	4/22/77				55.81N	166.42W	_			4/22/77				47.81N	87.15W			
	4/22/77	_			56.06N	165.17W		*		4/22/77				46.97N	85.45W			
	4/22/77					162.65W								44.88N	81.41W		.019	
	4/22/77				56.80N		-			4/22/77 4/22/77				44.51N	80.59W			
	4/22/77	-			57.06N					4/22/17				44.14N	79.76W			
	4/22/77				57.31N					4/22/77		-		43.75N	78.94W			
	4/22/77					157.73W				4/22/17				43.75N	78.12W			
	4/22/17 4/22/11	100			58.17N 58.52N					4/22/77					76.62W			
	7/66/11	1140	5.35	310	20.25N	191041#	-55•	•121		4/22/77					74.96W			
										7/26/11	2333	11	-00	4401114	. 7 . 7 UW	50.	• 015	



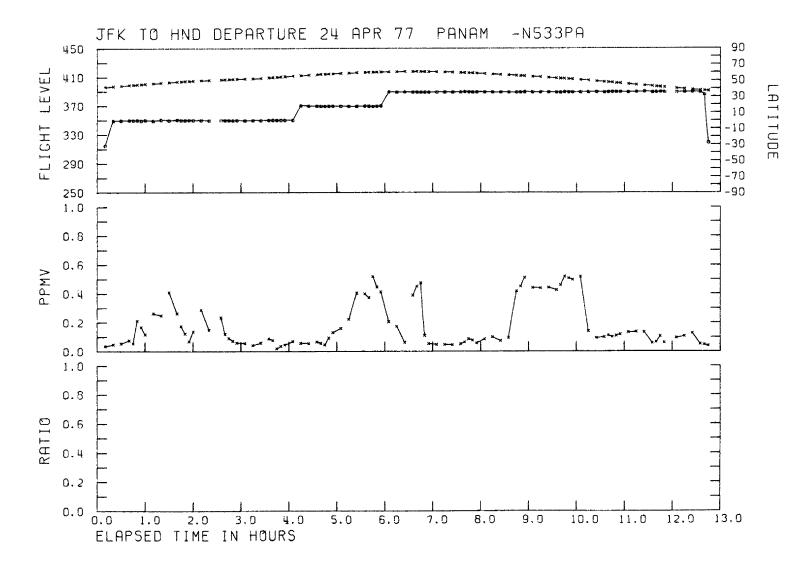
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .241 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 51 DATA SOURCE: GASP TAPE VLU10, FILE 2

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (PMV) CABIN AMB.	
	4/23/77	0408	1:15	370	30.33N	67.46W	-57•	.139		4/23/77	0723	4:30	370	6.01N	55.50W	-50.	•009	
	4/23/77	0418	1:25	369	29.04N	66.84W	-59.	.169		4/23/77	0733	4:40	369	4.80N	54.96W	-49.	.014	
	4/23/77	0428	1:35	370	27.76N	66.25W	-58•	.222		4/23/77	0743	4:50	<b>370</b>	3.57N	54.46W	-49.	.013	
	4/23/77	0438	1:45	370	26.46N	65.66W	-57.	.215		4/23/77	0748	4:55	370	2.94N	54.21W	-49.	.014	
	4/23/77	0443	1:50	369	25.82N	65.37W	-56.	.240		4/23/77	0753	5:00	370	2.30N	53.96W	-49.	.013	
	4/23/77	0448	1:55	370	25.17N	65.08W	<b>~</b> 55∙	.215		4/23/77	0758	5:05	369	1.68N	53.69W	-48.	.014	
	4/23/77	0453	2:00	370	24.51N	64.80W	-54.	.241		4/23/77	0803	5:10	389	1.05N	53.43W	-54.	.015	
	4/23/77	0458	2:05	370	23.83N	64.50W		•555		4/23/77	0813	5:20	410	.155	52.91W	-60.	.015	
	4/23/77	0508	2:15	370	22.50N	63.94W	-52.	.122		4/23/77	0823	5:30	410	1.355	52.40W	-60.	.015	
	4/23/77	0523	2:30	370	20.54N	63.13W	-55.	.072		4/23/77	0833	5:40	410	2.585	51.88W	-60.	.012	
	4/23/77	0533	2:40	370	19.23N	62.61W	-54.	.028		4/23/77	0843	5:50	410	3.815	51.36W		.012	
	4/23/77	0538	2:45	370	18.59N	62.35W	-54.	.025		4/23/77	0848	5:55	410	4.435	51.10W	-60.	.016	
	4/23/77	0543	2:50	370	17.94N	62.09W	-53•	•055		4/23/77	0853	6:00	410	5.055	50.83W	-60.	.019	
	4/23/77	0548	2:55	370	17.29N	61.84W	-50 •	.051		4/23/77		6:10	410	6.315	50.30W		.010	
	4/23/77	0553	3:00	369	16.67N	61.51W	-50.	.041		4/23/77		6:20	410	7.605	49.75W		.042	
	4/23/77	0558	3:05	370	16.06N	61.16W	-51.	.037		4/23/77		6:30	410	8.885	49.20W		.098	
	4/23/77	0603	3:10	370	15.45N	60.81W	-51.	.083		4/23/71		6:40	410	10.175	48.64W	-	.019	
	4/23/77	0613	3:20	370	14.23N	60.13W	-51.	.054		4/23/77				12.095	41.76W		.022	
	4/23/77	0623			13.17N	59.39W	-50	.028		4/23/77				12.745	41.46W		.043	
	4/23/77	0633	3:40	370	11.83N	58.73W	-49.	.005		4/23/77				13.395	47.15W		.021	
	4/23/77	0643	3:50	370	10.65N	58.02W	-49.	.022		4/23/77				14.055	46.84W		.054	
	4/23/77	0648	3:55	370	10.06N	57.68W		.022		4/23/77				15.385	46.20W		.043	
<u> </u>	4/23/77	0653	4:00	370	9.48N	57.33W	-49.	.066		4/23/77				16.715	45.56W		•000	
ຶ	4/23/77	0703	4:10		8.34N	56.70W	-49.	.020		4/23/77				18.085	44.88W		•000	
	4/23/77	0713	4:20		7.18N	56.10W		.096		4/23/77				19.475	44.19W		.033	
										4/23/77				20.955	43.93W		.066	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .198 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 64
DATA SOURCE: GASP TAPE VL010, FILE 2

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV)	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (	RATIO
	4/24/77	0231	0:10	361	21.125	43.54W	-48.	.021		4/24/77	0654			10.65N	57.94W	-54.	.010	
	4/24/77	0241	0:20	390	20.015	43.94W	-54.	.116		4/24/77	0704	4:43	390	11.86N	58.64W	-55.	.033	
	4/24/77	0251	0:30	390	18.985	44.43W	-54.	.021		4/24/77	0709	4:48	390	12.46N	58.98W	-54.	.015	
	4/24/77	0301	0:40	390	17.96S	44.94W	-55•	.023		4/24/77	0714	4:53	390	13.05N	59.32W	-55.	.010	
	4/24/77	0306	0:45	390	17.43S	45.20W	-55•	.028		4/24/77	0719	4:58	390	13.63N	59.66W	-55.	.008	
	4/24/77	0311	0:50	390	16.885	45.47W	-54.	.013		4/24/77	0724	5:03	390	14.20N	60.00W	-55.	.011	
	4/24/77	0316	0:55	390	16.345	45.74W	-55.	.042		4/24/77	0734	5:13	390	15.34N	60.67W	-55.	.031	
	4/24/77	0331	1:10	390	14.745	46.50W	-55•	.004		4/24/77	0744	5:23	390	16.46N	61.33W	-56.	.030	
	4/24/77	0336	1:15	390	14.175	46.77W	-55•	.081		4/24/77	0754	5:33	390	17.62N	61.91W	-55.	.030	
	4/24/77	0346	1:25	390	12.995	47.33W	-55•	.008		4/24/77	0804	5:43	403	18.79N	62.37W	-59.	.033	
	4/24/77	0356	1:35	390	11.805	47.89W	-55.	.021		4/24/77	0809	5:48	410	19.38N	62.60W	-61.	.028	
	4/24/77	0406	1:45	390	10.625	48.43W	-55•	.019		4/24/77	0814	5:53	410	19.96N	62.83W	-62.	.017	
	4/24/77	0411	1:50	390	10.005	48.70W	-55.	.017		4/24/77	0819	5:58	410	20.54N	63.07W	-61.	.052	
	4/24/77	0416	1:55	390	9.385	48.97W	-55•	.016		4/24/77	0834	6:13	410	22.22N	63.76W	-62.	.075	
	4/24/77	0421	2:00	390	8.765	49.24W	<b>-</b> 55•	.015		4/24/77	0844	6:23	410	23.33N	64.23W	-61.	.093	
	4/24/77	0426	2:05	390	8.135	49.51W	-55.	.005		4/24/77	0854	6:33	410	24.44N	64.71W	-58.	.114	
	4/24/77	0436	2:15	390	6.90S	50.04W	<b>-55</b> •	.021		4/24/77	0904	6:43	410	25.59N	65.21W	-58.	.198	
	4/24/77	0446	2:25	390	5.65S	50.57W	-55•	.016		4/24/77	0909	6:48	410	26.16N	65.47W	-59.	.182	
	4/24/77	0456	2:35	390	4.385	51.11W	-55•	.018		4/24/77	0914	6:53	410	26.73N	65.72W	-61.	.197	
	4/24/77	0506	2:45	390	3.125	51.64W	<del>-55</del> •	.017		4/24/77	0919	6:58	410	27.27N	65.97W	-64.	.110	
	4/24/77	0511	2:50	390	2.485	51.90W	-55•	.015		4/24/77	0924	7:03	410	27.81N	66.21W	-64.	.099	
	4/24/77	0516	2:55	390	1.845	52.17W	<del>-</del> 55•	.033		4/24/77	0934	7:13	410	28.91N	66.73W	-63.	.084	
₹	4/24/77	0521	3:00	390	1.215	52.44W	<b>-</b> 55•	.019		4/24/77	0944	7:23	410	30.02N	67.26W	-66.	.057	
8	4/24/77	0526	3:05	390	•59S	52.70W	-56 •	.005		4/24/77	0959	7:38	410	31.74N	68.11W	-66.	.069	
	4/24/77	0536	3:15	390	.66N	53.24W	-56.	.027		4/24/77	1004	1:43	410	32.30N	68.39W	-66.	.066	
	4/24/77	0546	3:25	390	1.93N	53.78W	-55•	.021		4/24/77	1009	7:48	410	32.87N	68.69W	-66.	.042	
	4/24/77	0606	3:45	390	4.50N	54.85W	-55•	.013		4/24/77	1014	7:53	410	33.41N	68.97W	-67.	.064	
	4/24/77	0614	3:53	390	5.54N	55.24W	-56.	.024		4/24/77	1019	7:58	410	33.98N	64.27W	-67.	.063	
	4/24/77	0619	3:58	390	6.21N	55.55W	-56.	.007		4/24/77	1029	8:08	410	35.13N	69.90W	-67.	.033	
	4/24/77	0624	4:03	390	6.84N	55.88W	-56.	.012		4/24/77	1039	8:18	410	36.29N	70.55W	-68.	.033	
	4/24/77	0634	4:13	390	8.13N	56.55W	<del>-</del> 55•	.010		4/24/77	1049	8:28	410	37.47N	71.23W	-66.	.031	
	4/24/77	0644	4:23	390	9.42N	57.25W	-55.	.029		4/24/77	1059	8:38	402	38.64N	71.97W	-66.	.051	
		-																

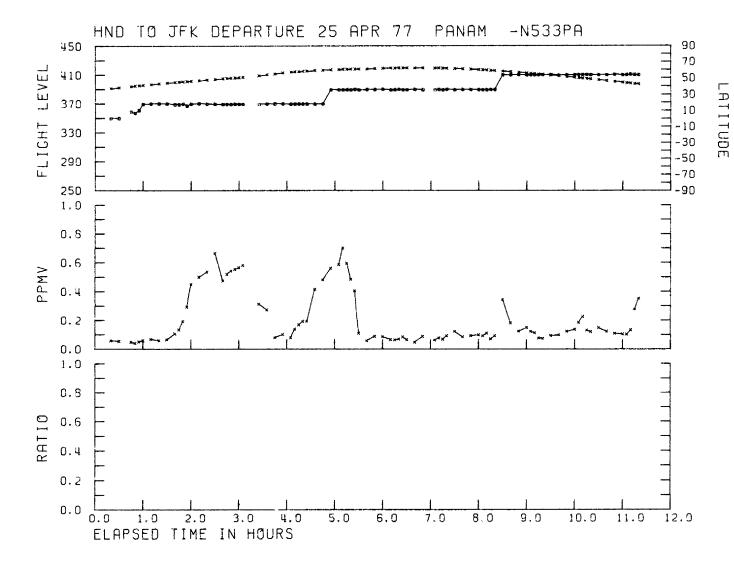


MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .520 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 99 DATA SOURCE: GASP TAPE VL010, FILE 2

			,,,,,															
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (P	RATIO
	4/24/77	1645	0:10	315	41.98N	75.24W	-46.	.037		4/24/77	2230	5:55	370	60.70N	142.02W	-50.	.413	
	4/24/77				42.72N	76.62W		.048		4/24/77				60.91N	144.76W		.206	
	4/24/77				43.47N	78.11W		.056		4/24/77		CT 0 1	4		147.45₩		.173	
	4/24/77				44.26N	79.68W		.077		4/24/77					150.20W		.062	
	4/24/77				44.66N	80.48W				4/24/77			w.		152.95W		.390	
	4/24/77				45.05N	B1.29W		.213		4/24/77				61.14N	154.30W		452	
	4/24/77				45.43N	82.09W				4/24/77					155.64W		.475	
	4/24/77				45.79N	82.89W	-			4/24/77			*		15/.00W		.110	
	4/24/77				46.50N	84.54W				4/24/77					158.36W		.054	
	4/24/77				47.17N	86.25W				4/24/77				60.84N	161.06W		.048	
	4/24/77				47.84N	88.07W				4/24/77				-	163.71W		.048	
	4/24/77				48.46N	89.90W				4/25/77				60.24N	166.32W		.045	
	4/24/77				48.76N	90.81W				4/25/77				59.85N	168.89W		.052	
	4/24/77				49.04N	91.72W				4/25/77				59.64N	170.14W		.064	
	4/24/77				49.31N	92.61W				4/25/77				59.42N	171.36W		.087	
	4/24/77				49.57N	93.52W				4/25/77					172.56W		.077	
	4/24/77				50.07N	95.35W				4/25/77					173.74W		.057	
	4/24/77				50.54N	97.19W		-		4/25/77		8:05	390	58.46N	176.03W	-50.	.086	
	4/24/77	1910	2:35	350	51.19N	100.04W				4/25/77	0050	8:15	389	57.92N	178.21W	-52.	.100	
	4/24/77	1915			51.38N	100.99W				4/25/77	0100	8:25	389	57.36N	179.68E	-52.	.074	
	4/24/77				51.57N	101.94W				4/25/77	0110	8:35	389	56.76N	177.64E	-52.	.094	
	4/24/77	1925	2:50	350	51.75N	102.89W				4/25/77	0120	8:45	389	56.16N	175.75E	-56.	.418	
Þ	4/24/77	1930	2:55	350	51.92N	103.84W	-61.	.060		4/25/77	0125			55.85N	174.83E		.452	
67	4/24/77	1940	3:05	350	52.23N	105.78W	-61.	.056		4/25/77	0130	8:55	390	55.52N	173.92E	-58.	.512	
	4/24/77	1950	3:15	350	52.52N	107.77W	-61.	.043		4/25/77	0140				172.11E		.442	
	4/24/77	2000	3:25	350	52.86N	109.76W	-59.	.059		4/25/77	0150	9:15	389	54.15N	170.37E	-58.	.439	
	4/24/77	2010	3:35	350	53.51N	111.50W	-59.	.090		4/25/77	0200	9:25	389	53.52N	168.58E	-58.	.444	
	4/24/77	2015	3:40	350	53.88N	112.36W	<b>-59</b> •	.077		4/25/77	0210	9:35	389	52.88N	166.79E	-54.	.426	
	4/24/77	2020	3:45	350	54.24N	113.24W	-59•	.020		4/25/77	0215	9:40	389	52.56N	165.93E	-53.	•460	
	4/24/77	2025	3:50	350	54.59N	114.13W	-59•	.036		4/25/77	0220				165.05E		.520	
	4/24/77	2030	3:55	350	54.94N	115.05W	-59.	.046		4/25/77	0225	9:50	389	51.86N	164.17E	-51.	.508	
	4/24/77	2040	4:05	350	55.61N	116.93W	-59.	.069		4/25/77	0230	9:55	389	51.49N	163.29E	-49.	•497	
	4/24/77		4:15	370	56.24N	118.82W	<del>-65•</del>	.057		4/25/77		10:05	389	50.73N	161.56E	-47.	•519	
	4/24/77		4:25	370	56.83N	120.76W	-64.	.055		4/25/77	0250	10:15	389	49.91N	159.83E	-46.	.139	
	4/24/77		4:35	370	57.40N	122.78W	-64.	.066		4/25/77	0300				158.16E	-47.	.093	
	4/24/77	2115	4:40	370	57.68N	123.82W	<del>-64•</del>	.057		4/25/77	0310	10:35	389	48.16N	156.52E	-47.	•099	
	4/24/77		4:45	370	57.94N	124.88W	-64.	.046		4/25/77	0315	10:40	389	47.71N	155.73E	-48.	.111	
	4/24/77	2125	4:50	370	58.20N	125.96W	-63•	.093		4/25/77	0320	10:45	390	47.25N	154.95E	-49.	.100	
	4/24/77	2130	4:55	370	58.45N	127.06W	-62•	.131		4/25/77	0325	10:50	390	46.79N	154.19E	-49.	.109	
	4/24/77	2140	5:05	370	58.92N	129.29W	-58•	.159		4/25/77	0330	10:55	390	46.32N	15J.45E	-52.	.117	
	4/24/77	2150	5:15	369	59.36N	131.66W	-57.	.223		4/25/77	0340	11:05	389	45.43N	152.07E	-58.	.132	
	4/24/77	2200	5:25	370	59.77N	134.14W	-52.	.404		4/25/77	0350	11:15	390	44.50N	150.71E	-60.	.135	
	4/24/77	2210	5:35	370	60.13N	136.75W	-50.	.399		4/25/77	0400	11:25	390	43.62N	149.45E	-61.	.133	
	4/24/77				60.30N	138.06W		.373		4/25/77	0410	11:35	389	42.78N	148.28E	-59.	.058	
	4/24/77	2220	5:45	369	60.44N	139.37W	-49.	.519		4/25/77	0415	11:40	390	42.36N	147.70E	-61.	.065	
	4/24/77		5:50	370	60.58N	140.68W		.446		4/25/77	0420	11:45	<b>390</b>	41.93N	147.13E	-63.	.106	

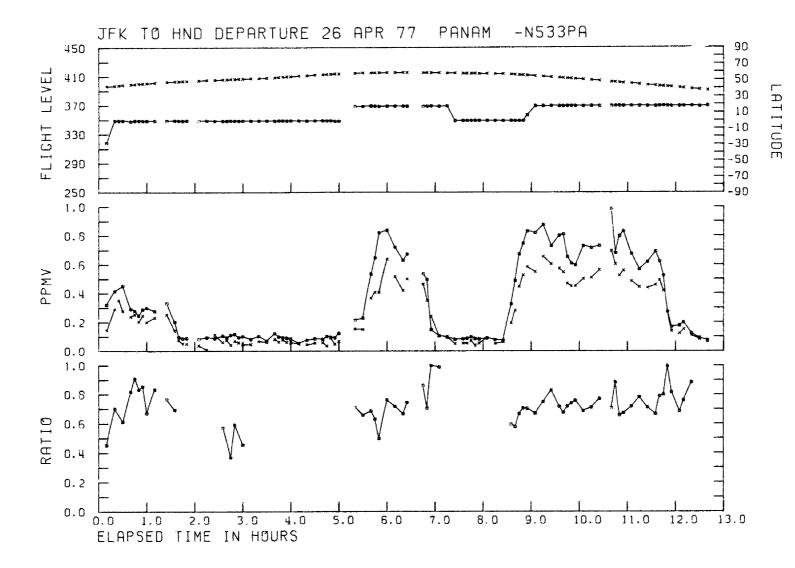
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .520 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 99
DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT LOP HR:MN	ONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (SPMV) RATIO (C) CABIN AMB.
4/25/77 0440	11:50 390 41.49N 146. 12:05 389 40.18N 144. 12:15 389 39.35N 143.	92E -59095	4/25/77 0500 12:25 390 38.51N 4/25/77 0510 12:35 389 37.71N 4/25/77 0515 12:40 386 37.38N 4/25/77 0520 12:45 319 37.05N	141.82E -60052 141.29E -60048



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .700 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 87 DATA SOURCE: GASP TAPE VL010, FILE 2

DATA	300		ASC IN	_ •	.0109 11													
MOZĐ	A/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV)	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (DPMV) CABIN AMB.	RATIO
4/2	5/77	1033	0:20	350	37.22N	144.29E	-51.	.060		4/25/77	1613	6:00	390	62.00N	147.58W	-50.	.086	
	5/77				38.31N	145.63E				4/25/77					144.59W			
	5/77				39.87N	147.72E				4/25/77					143.06W			
	5/77				40.40N	148.37E				4/25/77					141.52W			
	5/77				40.87N	149.14E				4/25/77		6:25	389	62.45N	140.01W	-52.		
4/2	5/77	1113	1:00	370	41.37N	149.84E	-58.	.060		4/25/77	1643	6:30	390	62.49N	138.49W	-53.	.065	
4/2	5/77	1123	1:10	370	42.28N	151.39E	-59•	.069		4/25/77	1653				135.38W			
4/2	5/77	1133	1:20	370	43.18N	152.98E	-60•	.059		4/25/77	1703				132.33W			
-	5/77	-, -	-		44.05N					4/25/77					127.81W			
	5/77				44.88N					4/25/77					126.29W			
_	5/77	_			45.24N					4/25/77					124.76W			
	5/77				45.61N					4/25/77					123.23W			
	5/77				45.98N					4/25/77					120.20W			
	5/77				46.35N					4/25/77					117.18W			
	5/77				47.12N					4/25/77					114.28W			
	5/77				47.90N					4/25/77					111.45W			
	5/77				48.65N		-			4/25/77					110.08W			
	5/77				49.38N					4/25/77				59.63N	108.74W			
	5/77				49.73N					4/25/77		* * *	4	59.32N	107.41W		•	
	5/77				50.06N					4/25/77			_	58.99N	106.11W			
	5/77 5/77				50.39N					4/25/77 4/25/77				58.30N 57.58N	103.61W			
	5/77				50.72N 51.14N					4/25/77				56.82N	98.96W			
	5/77				52.97N					4/25/77				56.00N	96.75W			
	5/77				54.21N					4/25/77				55.59N	95.70W			
	5/77				55.40N					4/25/77				55.17N	94.67W			
	5/77				56.56N					4/25/77				54.74N	93.66W			
	5/77				57.58N					4/25/77				54.30N	92.68W			
	5/77				57.89N					4/25/77				53.39N	90.76W			
	5/77				58.19N	177.13W				4/25/77				52.46N	88.93W			
	5/77				58.48N	175.91W				4/25/77				51.53N	87.23W			
	5/77				58.76N	174.66W				4/25/77				50.57N	85.59W			
	5/77				59.30N	172.04W				4/25/77				50.09N	84.80W			
	5/77	_			59.79N					4/25/77		10:10	410	49.60N	84.03W	-55.	.225	
	5/77				60.22N					4/25/77		10:15	410	49.10N	83.27W	-54.	.132	
4/2	5/77	1518	5:05	390	60.58N	163.66W	-49.	.587		4/25/77	2033	10:20	410	48.61N	82.53W	-54.	.120	
4/2	5/77	1523	5:10	389	60.74N	162.21W	-48.	.700		4/25/77	2043	10:30	410	47.59N	81.13W	-54.	.149	
4/2	5/77	1528	5:15	390	60.86N	160.73W	-49.	•595		4/25/77	2053	10:40	410	46.52N	79.85W	-54.	.123	
4/2	5/77	1533	5:20	389	60.95N	159.26W	-48.	.485		4/25/77	2103	10:50	410	45.45N	78.62W	-54.	.109	
4/2	5/77	1538	5:25	390	61.03N	-				4/25/77	2113	11:00	410	44.42N	77.50W	-55.	.104	
	5/77				61.08N					4/25/77					76.96W	-56.		
	5/77				61.35N	153.45W				4/25/77	2123	11:10	410	43.37N	76.48W	-55.	•133	
	5/77				61.71N	150.56W				4/25/77	2128	11:15	410	42.84N	76.00W	-55.	.277	
										4/25/77	2133	11:20	410	42.31N	75.53W	-56.	.352	



MAXIMUM VALUES: AMBIENT OZONE= .985 CABIN OZONE= .696 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.62 TOTAL OBS IN CABIN: 96
DATA SOURCE: GASP TAPE VL010, FILE 2

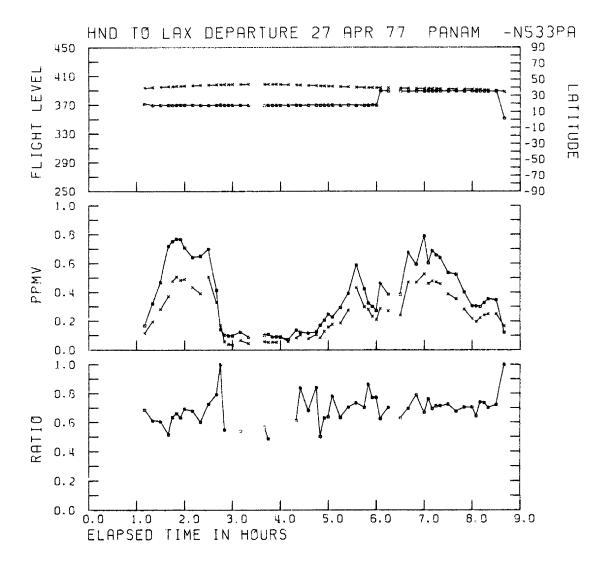
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

		•																		
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMB.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
	4/26/77	1705	0:10	318	42.14N	75.49W	-50.	.146	•322	•45	4/26/77	2308	6:13	369	59.36N	146.32W	-46.	.516	•719	.72
	4/26/77				42.82N	77.08W		.292	.416	•70	4/26/77				59.38N	148.39W		.419	•628	.67
	4/26/77	1722A	0:27	349	43.37N	78.33W	-52.	.354			4/26/77	2321	6:26	369	59.37N	149.84W	-48.	.500	•672	.74
	4/26/77	1728			43.72N	79.16W	-54.	.277	• 452	•61	4/26/77	2341	6:40	369	59.23N	154.71W	-60.	•463	•537	.86
	4/26/77				44.52N	80.66W	-55•	.239	•292	•82	4/26/77		44		59.16N	155.93W		.350	•496	.71
	4/26/77				44.92N	81.40W		. 254	• 279	•91	4/26/77				59.09N	157.14W		.241	•149	
	4/26/77				45.32N	82.14W		.205	• 246	•83	4/27/77				58.91N	159.50W		.104	•105	.99
	4/26/77				45.69N	82.87W		.246	•288	•85	4/27/77				58.68N	161.85W		.100	•097	
	4/26/77				46.07N	83.61W		.201	•299	•67	4/27/77				58.52N	164.27W		.051	•081	
	4/26/77	_	_		46.75N	85.18W		.231	•277	-83	4/27/77				58.34N	166.68W		•054	• 085	
	4/26/77 4/26/77				47.63N	87.58W		•253	•331	•76	4/27/77 4/27/77				58.22N 58.10N	167.89W		.053	•087	
	4/26/77				48.18N 48.43N	89.23W 90.05W		•140 •074	•202 •097	•69	4/27/77	, -			57.99N	169.10W 170.34W		.072	•09¤	
	4/26/77				48.66N	90.03N	_	.052	•088		4/27/77				57.96N	171.60W		.054	•084	
	4/26/77	-	_		48.88N	91.70W		.051	•090		4/27/77	-			57.87N	174.16W		.091	•090	
	4/26/77	_	-		49.52N	94.22W		.039	• 084		4/27/77				57.72N	176.75W		.052	•079	
	4/26/77	_		_	49.89N	95.95W	-	.008	• 094		4/27/77		^ *		57.51N	179.35W		.063	•075	
	4/26/77				50.23N	97.69W		.112	•088		4/27/77				56.99N	178.39E		.194	•326	.60
	4/26/77				50.60N	99.45₩		.060	•105	•57	4/27/77			-	56.66N	177.33E		.282	•488	.58
	4/26/77				50.80N	100.33W		.075	•093		4/27/77				56.32N	176.24E		.447	•671	.67
	4/26/77		2:48	349	51.00N	101.23W		.041	•111	•37	4/27/77		8:51	349	55.96N	1/5.17E	-48.	.527	.746	.71
	4/26/77	1948	2:53	349	51.19N	102.13W	-58	.069	•117	•59	4/27/77	0151	8:56	357	55.60N	174.13E	-47.	•584	.831	.70
·	4/26/77	1953	2:58	349	51.40N	103.04W	-57.	.058	• 095		4/27/77	0201	9:06	370	54.86N	172.13E	-46.	•550	.820	.67
3	4/26/77	1958	3:03	349	51.60N	103.94W	-57.	.046	•101	•46	4/27/77				54.09N	170.21E	-44.	•655	•874	.75
	4/26/77	5008	3:13	349	51.99N	105.80W	-57.	.046	•082		4/27/77	0221			53.41N	168.26E		.603	•729	.83
	4/26/77				52.35N	107.71W		.067	•103	•65	4/27/77	_			52.72N	166.36E		•573	•800	.72
	4/26/77				52.66N	109.71W		.060	•071		4/27/77				52.38N	165.46E		•547	•816	-68
	4/26/77	-			53.18N	111.62W	-	.082	•122	•67	4/27/77				52.01N	164.55E		•469	•653	.72
	4/26/77				53.52N	112.52W		.063	•099		4/27/77				51.65N	163.66E		•450	•609	•74
	4/26/77				53.85N	113.44W		•07B	•093		4/27/77				51.27N	162.78E		.452	•596	.76
	4/26/77			-	54 - 17N	114.40W		.061	•090		4/27/77 4/27/77				50.50N 49.69N	161.06E 159.39E		•501 •509	•729 •716	.69 .71
	4/26/77 4/26/77		-		54.50N 55.13N	115.38W 117.43W		.058 .049	•084 •055		4/27/77				48.87N	157.80E		•563	•715	.77
	4/26/77				55.73N	117.43W		.045	•055		4/27/77				47.62N	155.58E		.696	• 985	71
	4/26/77	-			56.30N	121.76W		.056	•086		4/27/77				47.19N	154.85E		.603	•681	89
	4/26/77	_		_	56.84N	124.05W		.058	•083		4/27/77				46.75N	154.13E		.524	•797	.66
	4/26/77	-			57.09N	125.22W		035	•102	•34	4/27/77			_	46.31N	153.43E		•559	831	.67
	4/26/77				57.33N	126.40W		.089	•096	***	4/27/77			4 1	45.45N	152.10E		.485	•676	.72
	4/26/77				57.55N	127.58W		•048	•093		4/27/77				44.59N	150.83E		.444	•568	.78
	4/26/77	_		-	57.76N	128.74W		.068	•123	•55	4/27/77				43.73N	149.62E		439	•618	.71
	4/26/77				58.49N	133.64W		153	.215	•71	4/27/77	_	~		42.90N	148.45E		.459	•690	.67
	4/26/77				58.79N	136.15W		.150	•228	•66	4/27/77				42.49N	147.88E		.492	•623	.79
	4/26/77			-	59.01N	138.64W		.366	•534	•69	4/27/77		11:46	370	42.07N	14/.32E	-57.	.419	•524	.80
	4/26/77	2243	5:48	369	59.10N	139.91W	-50.	.407	-645	•63	4/27/77	0446	11:51	370	41.67N	146.79E		.273	•274	1.00
	4/20/77	2248	5:53	369	59.18N	141.16W	-50.	.406	.818	•50	4/27/77	0451	11:56	370	41.26N	146.26E	-58.	.138	•169	.82
	4/26/77	2258	6:03	369	59.29N	143.74W	-47.	.637	•837	•76	4/27/77	0501	12:06	370	40.41N	145.20E	-57.	.122	•178	•69

MAXIMUM VALUES: AMBIENT OZONE= .985 CABIN OZONE= .696 RATIO (LIMITEN TO AMB. OZONE ABOVE U.1)= 1.62 TOTAL OBS IN CABIN: 96
DATA SOURCE: GASP TAPE VL010, FILE 2

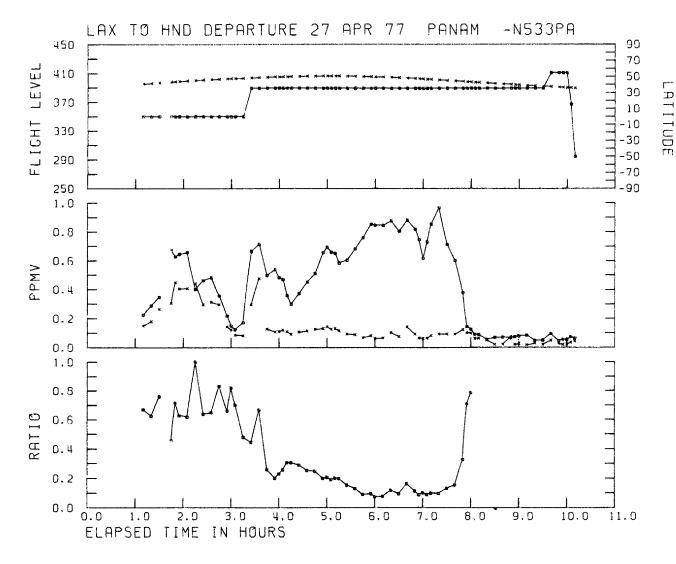
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.



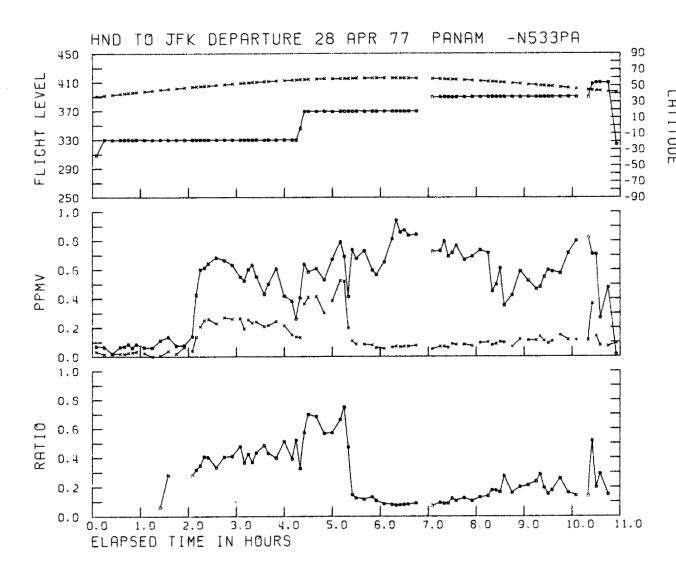
MAXIMUM VALUES: AMBIENT OZONE= .789 CABIN OZONE= .526 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.35 TOTAL OBS IN CABIN: 59 DATA SOURCE: GASP TAPE VLU10, FILE 2

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RAT10
	4/27/77	0935	1:14	371	39.43N	154.33E	-58•	.116	•169	•69	4/27/77	1320	4:59	370	41.79N	158.67W	-63.	.129	.205	.63
	4/27/77	0945	1:24	369	40.01N	156.29E	-56•	.196	•321	•61	4/27/77	1325	5:04	370	41.63N	157.69W	-62.	.158	•248	.64
	4/27/77	0955	1:34	370	40.58N	158.34E	<b>-</b> 54∙	.283	•468	•60	4/27/77	1330	5:09	370	41.45N	156.72W	-62.	.177	•227	.78
	4/27/77	1005	1:44	370	41.10N	160.41E	-51.	.371	•719	•52	4/27/77	1340	5:19	370	41.09N	154.85W	-62.	.186	•294	.63
	4/27/77	1010	1:49	370	41.34N	161.41E	-50•	.477	• 752	•63	4/27/77	1350	5:29	370	40.70N	152.99W	-60.	.276	•392	.70
	4/27/77	1015	1:54	370	41.58N	162.44E	-5.0 •	.508	•769	•66	4/27/77	1400	5:39	369	40.28N	151.17W	-57.	.431	•587	.73
	4/27/77	1020	1:59	370	41.81N	163.47E	-50.	.484	•766	•63	4/27/77	1410	5:49	369	39.95N	149.35W	-51.	.297	•423	.70
	4/27/77	1025	2:04	370	42.02N	164.51E	-50.	.491	• 709	•69	4/27/77	1415	5:54	370	39.89N	148.42W	-50.	.280	•325	.86
	4/27/77	1035	2:14	370	42.43N	166.60E	-51.	.435	•642	•68	4/27/77	1420	5:59	370	39.82N	141.48W	-50.	.232	•301	.77
	4/27/77	1045	2:24	370	42.80N	168.71E	-52•	.391	•650	•60	4/27/77	1425	6:04	370.	39.74N	146.54W	-49.	.210	•272	.77
	4/27/77	1055	2:34	370	43.12N	170.85E	<del>-5</del> 3•	.507	•699	•73	4/27/77	1430	6:09	390	39.66N	145.60W	-47.	.287	•460	.62
	4/27/77	1105	2:44	370	43.40N	173.04E	-56.	.329	•415	• 79	4/27/77	1440	6:19	390	39.47N	143.74W	-46.	.271	•386	.70
	4/27/77	1110	2:49	370	43.53N	174.17E	-58•	.169	•141	1.20	4/27/77	1452	6:31	389	39.21N	141.52W	-46.	.242	•385	,63
	4/27/77	1115	2:54	370	43.64N	175.29E	-58•	.057	•104	•55	4/27/77	1502	6:41	389	38.98N	139.70W	-46.	•469	•674	.70
	4/27/77	1120	2:59	370	43.74N	176.40E	-59.	.040	•098		4/27/77	1512	6:51	389	38.86N	137.87W	-46.	.469	•594	.79
	4/27/77	1125	3:04	370	43.83N	177.51E	-60.	.033	•098		4/27/77	1522	7:01	389	38.71N	136.06W	-49.	•526	.789	.67
	4/27/77	1135	3:14	370	43.98N	179.72E	-60•	.067	•124	•54	4/27/77	1527	7:00	390	38.63N	135.16W	-48.	•460	•604	.76
	4/27/77	1145	3:24	370	44.07N	178.09W	<del>-</del> 59•	.045	• 089		4/27/77	1532	7:11	389	38.53N	134.24W	-49.	.478	•688	.69
	4/27/77	1205	3:44	370	44.10N	173.73W	-60•	.058	•102	•57	4/27/77	1537	7:16	390	38.43N	133.34W	-52.	.470	•659	.71
	4/27/77	1210	3:49	370	44.08N	172.65W	-60•	.053	•109	•49	4/27/77	1542	7:21	390	38.32N	132.44W	-52.	.458	•641	.71
	4/27/77	1215	3:54	370	44.06N	171.58W	-60.	.055	•091		4/27/77	1552	7:31	389	38.09N	130.67W	-52.	.388	•535	.73
	4/27/77	1220	3:59	370	44.02N	170.51W	-61·	.053	•091		4/27/77	1602	7:41	390	37.97N	128.85W	-54.	.354	•524	•68
₽	4/27/77	1225	4:04	370	43.92N	169.47W	-61.	.093	•089		4/27/77	1612	7:51	389	37.90N	127.03W	-55.	.283	•402	.70
77	4/27/77	1235	4:14	370	43.58N	167.41W	-61.	.058	•072		4/27/77	1622	8:01	390	37.62N	125.25W	<b>-57</b> .	.215	•305	.70
	4/27/77	1245	4:24	370	43.20N	165.40W	-62.	.084	•137	•61	4/27/77	1627	8:06	389	37.46N	124.37W	-56.	.196	•305	.64
	4/27/77	1250	4:29	370	43.01N	164.43W	-62•	.103	•123	•84	4/27/77	1632	8:11	390	37.30N	123.50W	-56.	.222	•30n	.74
	4/27/77	1300	4:39	370	42.60N	162.52W	-63•	.079	•116	•68	4/27/77	1637	8:16	389	36.94N	122.78W	-56.	.241	۰32⊬	.73
	4/27/77	1310	4:49	370	42.15N	160.60W	-64.	.106	•126	.84	4/27/77	1642	8:51	389	36.52N	122.10W	-54.	.249	• 355	.70
	4/27/77	1315	4:54	370	41.94N	159.64W	-64.	.085	•170	•50	4/27/77	1652	8:31	389	35.64N	120.76W	-54.	.250	•347	.72
											4/27/77	1702	8:41	352	34.74N	119.52W	-55•	.166	•123	1.35



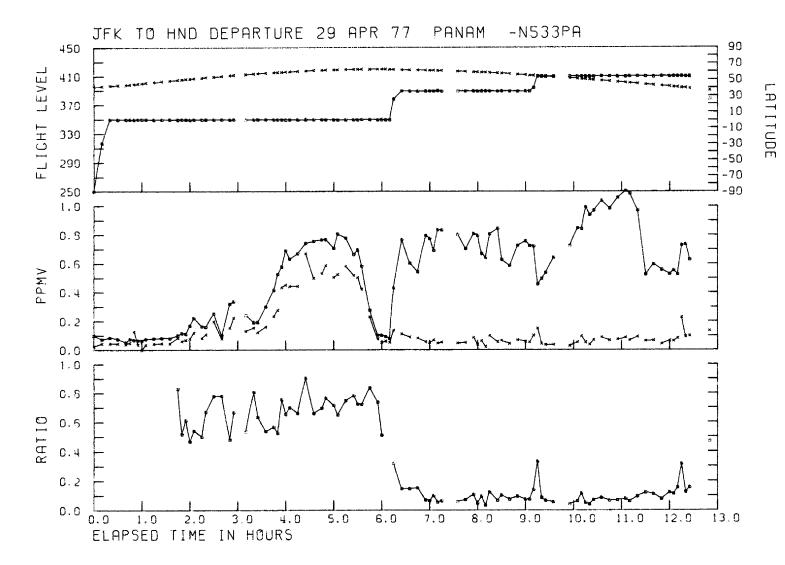
MAXIMUM VALUES: AMBIENT OZONE= .966 CABIN OZONE= .477 RATIO (LÍMITED TO AMB. OZONE ABOVE 0.1)= 1.10 TOTAL OBS IN CABIN: 68 DATA SOURCE: GASP TAPE VL010, FILE 2

		-																		
i	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPI CABIN AI		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN		Oltar
	4/27/77	2131	1:10	350	40.97N	127.63W	-56•	.151 •	225	•67	4/28/77	0216	5:55	390	50.02N	179.93E	-44.	.081	-853	.09
	4/27/77	2141	1:20	350	41.66N	129.18W	-54.	• iso •:	885	•63	4/28/77	1550	6:00	389	49.86N	178.94E	-44.	.063	.847	.07
	4/27/77	2151	1:30	350	42.37N	130.76W	<b>-54</b> •	.264	347	•76	4/28/77	0231				176.99E		.065	.846	.08
	4/27/77	2206	1:45	350	43.45N	133.22W	-49.	.307	671	• 46	4/28/77	0241	6:20	390	49.17N	175.04E	-44.	.103	•876	.12
	4/27/77	2211	1:50	350	43.81N	134.07W	-51.	.449	628	•71	4/28/77	0251			48.77N	173.10E	-44.	.076	-805	• 09
	4/27/77	2216	1:55	350	44.16N	134.93W	-51.	.406	646	•63	4/28/77	0301	6:40	390	48.33N	171.18E	-43.	.143	•881	.16
	4/27/77	2226	2:05	350	44.85N	136.69W	-52.	.40B .	658	•62	4/28/77	0311	6:50	389	47.82N	169.34E	-44.	.092	.819	.11
	4/27/77	2236	2:15	350	45.54N	138.60W	-49.	.441	402	1.10	4/28/77	0316	6:55	390	47.52N	168.47E	-45.	.066	•747	.09
	4/27/77	2246	2:25	350	46.13N	140.43W	-53.	•296 •·	463	•64	4/28/77	0321	7:00	38 <del>9</del>	47.21N	16/.61E	-44.	.062	•619	.10
	4/27/77	2256	2:35	350	46.59N	142.37W	-52•	.314	483	•65	4/28/77	0326	7:05	390	46.90N	166.77E	-45.	.065	•730	• 09
	4/27/77	2306	2:45	350	47.01N	144.33W	-59.	.297 .	357	•83	4/28/77	0331	7:10	390	46.59N	165.95E	-45.	.083	•854	.10
	4/27/77	2316	2:55	350	47.39N	146.27W	-61.	.144 .	218	•66	4/28/77	0341	7:20	390	45.95N	164.33E	-45.	.093	•966	• 1 <sup>0</sup>
	4/27/77	2321	3:00	350	47.56N	147.24W	-62.	.122 .	149	•82	4/28/77	0351	7:30	390	45.29N	162.77E	-47.	.093	•713	.13
	4/27/77	2326	3:05	350	47.73N	148.20W	-62.	.087 .	124	•70	4/28/77	0401	7:40	390	44.62N	161.24E	-50.	.092	•602	.15
	4/27/77	2336	3:15	350	48.04N	150.11W	-61.	.082 .	171	•48	4/28/77	0411	7:50	390	43.95N	159.79E	-59.	.123	•37R	.33
	4/27/77	2346	3:25	389	48.49N	151.93W	-58.	.296 •	664	• 45	4/28/77	0416	7:55	390	43.67N	159.13E	-61.	.102	•144	.71
	4/27/77	2356	3:35	389	48.90N	153.79W	-59.	.477 •	714	•67	4/28/77	0421			43.38N	158.46E	-6l·	.099	•126	.79
	4/28/77	0006	3:45	390	49.28N	155.65W	-60.	.129	499	•26	4/28/77	0426			43.07N	157.79E		.062	•091	
	4/28/77	0016	3:55	390	49.61N	157.46W	-59.	.108 .	539	•20	4/28/77	0431	8:10	390	42.78N	157.14E	-60.	.064	•089	
	4/28/77	0021	4:00	390	49.77N	158.36W	-63.	• i 1 1 • ·	483	•23	4/28/77	0441	8:20	390	42.17N	155.86E	-61.	.051	• 056	
	4/28/77	0026	4:05	390	49.91N	159.25W	-62.	.121	470	•26	4/28/77	0451	8:30	389	41.55N	154.62E	<b>-61</b> •	.021	• 169	
	4/28/77	0031	4:10	390	50.04N	160.13W	-64•	.110 .	359	•31	4/28/77	0501	8:40	390	40.93N	153.41E	-61.	.023	•07]	
₽	4/28/77	0036	4:15	390	50.17N	161.02W	-65•	.092 .	300	•31	4/28/77	0511			40.29N				•067	
79	4/28/77	0046	4:25	390	50.39N	162.82W	-64.	.108 .	373	•29	4/28/77	0516			39.96N	151.62E		.021	• 074	
	4/28/77	0056	4:35	390	50.60N	164.63W	-63•	.114 •	451	•25	4/28/77	0521			39.63N	151.03E			•080	
	4/28/77	0106	4:45	390	50.77N	166.44W	-61.	.127	511	•25	4/28/77	0531	9:10	390	38.96N	149.83E	-60.	.018	• 085	
	4/28/77	0116	4:55	390	50.92N	168.30W	-56.	.131 •	656	-20	4/28/77	0541	9:20	390	38.42N	148.54E	-60.	.029	• 049	
	4/28/77	0121	5:00	390	50.98N	169.23W	-57.	. Î44 •	694	•21	4/28/77	0551	9:30	390	37.88N	147.30E	-60.	.022	•050	
	4/28/77	0126	5:05	390	51.02N	170.20W	-55.	.126 .	660	•19	4/28/77	0601	9:40	411	37.33N	146.08E	<b>~</b> 65.	.049	• 095	
	4/28/77	0131	5:10	390	50.96N	171.13W	-55.	.131 •	652	-20	4/28/77	0611	9:50	411	36.79N	144.93E	<b>~</b> 65∙	.028	• 046	
	4/28/77	0136	5:15	390	50.90N	172.09W	-54.	.116 .	585	-20	4/28/77	0616	9:55	411	36.51N	144.35E	-65.	.020	• 055	
	4/28/77	0146	5:25	390	50.73N	174.08W	<b>~</b> 50•	.093 .	605	•15	4/28/77	0621	10:00	411	36.23N	143.78E	-64.	.024	•053	
	4/28/77	0156	5:35	389	50.53N	176.05W	-48.	.089	682	•13	4/28/77	0626	10:05	367	36.01N	143.16E	-53.	.036	•073	
	4/28/77	0206	5:45	390	50.29N	178.06W	-46.	.068 .	760	• 09	4/28/77	0631	10:10	<b>295</b>	35.80N	142.51E	-36.	.044	•065	
			_				, -				•	_								



MAXIMUM VALUES: AMBIENT OZUNE= .941 CABIN OZUNE= .525 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .75 TOTAL OBS IN CABIN: 85 DATA SOURCE: GASP TAPE VL010, FILE 2

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE(	PPMV) AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PMV)	RAT10
	4/28/77	1040	0:05	309	36.64N	143.02E	-40-	.033	•072		4/28/77	1601	5:26	370	59.20N	150.67W	-45.	.109	•73 <sub>H</sub>	.15
	4/28/77				37.49N	144.58E		.017	•067		4/28/77				59.28N	149.23W		.085	•67H	.13
	4/28/77	1100			38.61N	145.97E		.022	•019		4/28/77	1616	5:41	370	59.40N	146.39W	-47.	.085	•731	.12
	4/28/77	1110	0:35	330	39.70N	147.43E	-47.	.021	•067		4/28/77	1626	5:51	370	59.46N	143.52W	-47.	.079	•597	.13
	4/28/77	1115	0:40	330	40.24N	148.18E	-46.	.020	•071		4/28/77	1631	5:56	370	59.47N	142.06W	-46.	.061	•565	.11
	4/28/77	1120	0:45	330	40.79N	148.95E	-47.	.026	•086		4/28/77	1641	6:06	370	59.45N	139.14W	-45.	.056	.654	.09
	4/28/77	1125	0:50	330	41.32N	149.72E	-47.	.029	•061		4/28/17	1651	6:16	370	59.47N	136.18W	-45.	.065	-814	.08
	4/28/77				41.82N	150.52E		.035	• 085		4/28/77				59.46N	134.72W		.071	•941	.08
	4/28/77				42.79N	152.19E		.025	• 064		4/28/77				59.43N	133.26W		.067	•860	•0₽
	4/28/77				43.77N	153.95E		.000	•062		4/28/77				59.38N	131.81W		.070	∙875	.08
	4/28/77				44.86N	156.07E		.007	•111	• 06	4/28/77				59.32N	130.38W		.070	-839	.08
	4/28/77		-		45.76N	157.95E		.038	•135	•28	4/28/77				59.16N	127.53W		.077	•845	.09
	4/28/77				46.63N	159.87E		.020	•076		4/28/77	-		-	58.76N	122.02W		.053	•72a	• 07
	4/28/77		_	-	47.51N	161.72E		.066	•078		4/28/77				58.41N	119.38w		.069	•732	.09
	4/28/77				48.37N	163.63E		.039	•139	•28	4/28/77				58.21N	118.09W		.070	• 798	.09
	4/28/77				48.78N	164.59E		.135	•426	•32	4/28/77				57.99N	115.78W		.062	•691	.09
	4/28/77				49.19N	165.58E		.208	•600	• 35	4/28/77				57.77N	115.53W		.088	•718	.14
	4/28/77 4/28/77				49.58N 49.95N	166.55E 167.53E		-250	•613 •643	•41 •40	4/28/77				57.53N 57.01N	114.28W 111.79W		.082 .084	•767	•14
	4/28/77				50.68N	169.53E		•259 •228		•33	4/28/77 4/28/77				56.44N	109.39W			•670	.13
	4/28/77		_		51.51N	171.40E		.270	•683 •665	•41	4/28/77				55.84N	107.06w		.073	•693 •736	.11 .13
	4/28/77				52.37N	173.25E		.260	•633	•41	4/28/77	-			55.19N	104.82W		.099	•717	.14
>	4/28/77				53.14N	175.18E		.263	•551	• 48	4/28/77	-			54.86N	103.73W		.081	•450	18
o	4/28/77				53.50N	176.19E		.192	•524	•37	4/28/77				54.52N	102.67W		.088	•498	18
	4/28/77				53.85N	177.23E		.256	•602	•43	4/28/77				54.17N	101.63W		.101	•611	.17
	4/28/77	_			54.18N	178.27E		.233	•633	•37	4/28/77		F 1 2 2 2 1		53.81N	100.62W		.097	•353	.21
	4/28/77				54.52N	179.31E		.240	•553	•43	4/28/77			,	53.07N	98.63W	,	.068	•424	16
	4/28/77		-		55.16N	178.54W		.209	•431	•48	4/28/77				52.29N	96.68W		.119	-590	.20
	4/28/77				55.47N	177.44W		-216	•501	•43	4/28/77		_		51.47N	94.80W		.112	•525	.21
	4/28/77		_		56.04N	175.20W		.243	•608	-40	4/28/77		9:16	390	50.66N	92.90W	-60.	.111	•467	.24
	4/28/77	1436	4:01	330	56.57N	172.95W	-47.	.214	•418	•51	4/28/77	1956	9:21	390	50.26N	91.92W	-59.	.138	•481	.29
	4/28/77	1446	4:11	330	57.06N	170.64W	-52.	.150	•382	•39	4/28/77	2001	9:26	390	49.85N	90.96W	-57.	.108	•551	.20
	4/28/77	1451	4:16	330	57.30N	169.48W	-55.	.136	.261	•52	4/28/77	2006	16:6	390	49.45N	90.05W	-56.	.092	•599	.15
	4/28/77	1456	4:21	345	57.55N	168.32W	-56.	•132	•405	•33	4/28/77	2011	9:30	390	49.03N	89.11W	-57.	.105	•589	.18
	4/28/77	1501	4:26	370	57.79N	167.11W	-55.	.365	•637	•57	4/28/77	2021	9146	390	48.15N	87.27W	-55.	.149	•576	.26
	4/28/77	1506	4:31	370	58.02N	165.86W	-55.	.409	•585	•70	4/28/77	2031	9:56	390	47.25N	85.49W	-53.	.116	•716	.16
	4/28/77	1516	4:41	370	58.45N	163.25W	-55.	.416	•608	-68	4/28/77	2041	10:06	390	46.29N	83.73W		.115	.801	.14
	4/28/77	1526	4:51	370	58.68N	160.52W		.301	•531	•57	4/28/77		10:21	390	44.82N	81.22W		.113	.821	.14
	4/28/77	1536	5:01	370	58.70N	157.68W	-54•	.385	•672	•57	4/28/77		-		44.35N	80.40W		.366	•710	.52
	4/28/77				58.86N	154.91W		•525	•792	•66	4/28/77				43.95N	79.47W		.141	•709	.20
	4/28/77	1551	5:16	370	58.99N	153.52W	-51•	•520	•693	• 75	4/28/77	2111	-		43.56N	78.58W		.078	•264	.29
	4/28/77	1556	5:21	370	59.10N	152.11W	-50•	-196	•414	•47	4/28/77				42.74N	76.83W		.072	•478	.15
											4/28/77	2131	10:56	324	42.05N	75.02W	-54.	.092	•015	



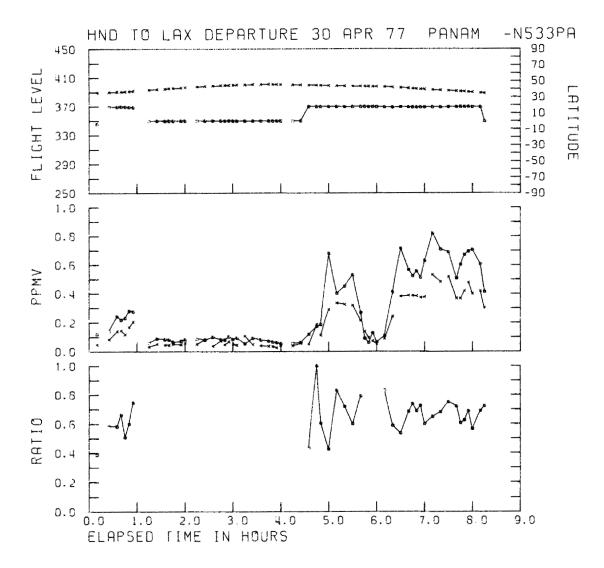
MAXIMUM VALUES: AMBIENT OZONE=1.104 CABIN OZONE= .671 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .90 TOTAL OBS IN CABIN: 98
DATA SOURCE: GASP TAPE VL010, FILE 2

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

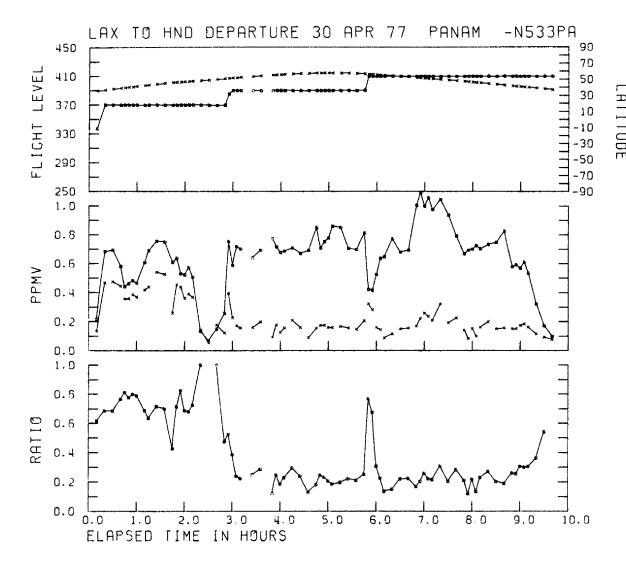
					_														
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE (		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE( CABIN	⊳PMV) AMB.	RATIO
4/29/77	1629	0:00	211	41.13N	74.00W	-20.	.025	•099		4/29/77	2230	6:01	350	62.97N	140.48W	-57.	.052	-102	.51
4/29/77	_			41.68N	75.08W		.044	•073		4/29/77				62.95N	141.64W		.060	•093	• 3 -
4/29/77	- ,		•	42.28N	76.33W		.045	•085		4/29/77				62.79N	142.76W		.053	•079	
4/29/77				42.70N	77.79W		.044	•075		4/29/77			_	62.59N	143.87W		.137	•430	.32
4/29/77		-		43.40N	79.01W		.041	• 052		4/29/77				62.18N	146.34W		.112	•767	.15
4/29/77				43.86N	79.51W	_	.049	•075		4/29/77	-	6:36	390	62.07N	148.97W		.089	•604	.15
4/29/77	_			44.33N	WS0.08		.129	•069		4/29/77		6:46	389	61.91N	151.60W	-56.	.083	.544	.15
4/29/77	1724	0:55	350	44.79N	80.54W		.036	•067		4/29/77	2325	6:56	390	61.69N	154.33W	-48.	.056	•79h	.07
4/29/77	1729	1:00	350	45.27N	81.08W	-62.	.001	• 065		4/29/77	2330	7:01	390	61.56N	155.70W	-48.	.051	•776	.07
4/29/77	1736	1:07	350	45.94N	81.86W	-62.	.035	•075		4/29/77		7:06	390	61.42N	157.05W	-49.	.069	•692	.10
4/29/77	1746	1:17	350	46.85N	82.97W	-62.	.043	•080		4/29/77	2340	7:11	390	61.25N	158.44W	-46.	.047	•836	.06
4/29/77	1756	1:27	350	47.78N	84.15W	-62.	.045	•083		4/29/77	2345	7:16	389	61.08N	159.79W		.054	·835	.05
4/29/77				48.71N	85.40W		.045	180		4/30/77		4		60.38N	165.15W		•047	•80⊕	.06
4/29/77		_		44.63N	86.70W		.083	<ul><li>100</li></ul>		4/30/77				60.01N	16/.85W		.051	•704	.07
4/29/77	_			50.09N	87.37W		.060	•116	•52	4/30/77				59.58N	170.47W		.086	-809	.11
4/29/77				50.54N	88.05W		.068	•111	•61	4/30/77				59.35N	171.77W		.037	•797	.05
4/29/17				50.99N	88.74W		.079	•169	• 47	4/30/77	-			59.10N	173.04W		.063	•671	•09
4/29/77				51.43N	89.45W		.120	•555	•54	4/30/77				58.84N	174.31W		.022	•643	.03
4/29/77				52.31N	90.92W		.082	•164	•50	4/30/77				58.57N	175.54W		.099	•806	.12
4/29/77				52.74N	91.67W		.107	•160	•67	4/30/77		-	1.8	57.99N	177.95W		.056	•845 (20	.07
4/29/77 4/29/77				53.60N	93.24W		.197	•253	•78	4/30/77 4/30/77			-	57.69N 57.06N	179.11W		.064 .044	•629 •587	.10
4/29/11				54.42N 55.22N	94.84W 96.52W		.078	•100 •321	•48	4/30/17				56.40N	176.48E		.069	•727	.09
4/29/77	-			55.61N	97.38W		.224	•337	•66	4/30/77			-	55.70N	174.43E		.057	•759	.08
4/29/77		_		56.60N	100.21W		.130	•243	•53	4/30/77		and the second second		55.35N	173.43E		.054	726	.07
4/29/77	_			57.24N	102.12W		.154	•191	•81	4/30/77	_		_	54.98N	172.46E		.101	•723	.14
4/29/77	_			57.57N	103.06W	_	122	•192	•64	4/30/77				54.61N	171.51E		.152	• 45A	33
4/29/77	-	_		58.19N	104.98W		.101	•300	•54	4/30/77				54.24N	170.57E		.043	•496	.09
4/29/77				58.78N	106.96W		.235	-415	•57	4/30/17		9:26	410	53.88N	169.63E	-42.	.036	•539	.07
4/29/77		-		59.07N	107.99w		.276	•526	•52	4/30/77		9:36	410	43.22N	167.72E	-43.	.036	•643	.06
4/29/77	2025			59.35N	109.04W		.435	•578	• 75	4/30/77	0225	9:56	410	51.83N	164.10E	-44.	.030	•725	.04
4/29/77	2030	4:01	350	59.63N	110.10W	-49.	.452	•690	•66	4/30/77	0235	10:06	410	51.10N	162.40E	-43.	.053	•848	.06
4/29/77	2035	4:06	350	59.89N	111.21W	-48.	.443	•633	•70	4/30/77	0240	10:11	410	50.73N	161.56E	-44.	.096	.842	.11
4/29/77	2045	4:16	350	60.41N	113.52W	-48.	.443	•670	•66	4/30/77	0245			50.34N	160.72E		.051	•991	.05
4/29/77	2055	4:26	350	60.89N	115.92W	-46.	.671	•742	•90	4/30/77				49.96N	159.91E		.038	•940	.04
4/29/77		4:36	350	61.33N	118.41W	-46.	• 499	• 756	•66	4/30/77	-	-		49.55N	159.12E		.069	•97U	.07
4/29/77		4:46	350	61.73N	121.02W		•533	•767	•69	4/30/77				48.71N	15/.52E			1.037	.09
4/29/77		4:51	350	61.91N	122.35W	-43.	•587	•768	•76	4/30/77				47.84N	155.97E		.066	•985	.07
4/29/77				62.22N	125.04W		.506	•707	•72	4/30/77		-		46.98N	154.51E		.074		.07
4/29/77				62.36N	126.41W		-525	•807	• 65	4/30/77				46.12N	153.13E			1.104	.08
4/29/77				62.59N	129.15W		-582	•778	• 75	4/30/77				45.69N	152.46E			1.085	.06
4/29/17				62.77N	131.87W		.519	•664	• 78	4/30/77		- , -		44.80N	151.14E	_	.092	•971	.09
4/29/77				95.83N	133.21W		.504	•695	•73	4/30/77				43.92N	149.88E		.063	•527	.12
4/29/77				62.88N	134.40W		.421	•584	•72	4/30/77	_			43.07N	148.65E		.066	•598	•11
4/29/77				62.95N	136.93W		.231	•276	-84	4/30/77		_		42.20N	14/.43E		.043	•55A	.08
4/29/77	2225	5:56	350	62.97N	139.31W	-57•	.076	•103	• 74	4/30/77	0430	15:01	410	41.32N	146.27E	-48.	•064	•529	.12

MAXIMUM VALUES: AMBIENT DZONE=1.104 CABIN DZONE= .671 RATIO (LIMITED TO AMB. DZONE ABOVE 0.1)≈ .90 TOTAL OBS IN CABIN: 95 DATA SOURCE: GASP TAPE VL010, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES NORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZUNE(P (C) CABIN		MO/DA/YR GMT	ETIM FL LAT	LONG TEMP OZONE(£PMV) RATIO (C) CABIN AMB.
4/30/77 0435	12:06 410 40.88N	145.70E -48062	•554 •11			144.01E -48092 .736 .13
4/30/77 0440	12:11 410 40.43N	145.13E -48082	•528 •16	4/30/77 0455	12:26 410 39.06N	143.45E -49099 .629 .16
4/30/77 0445	12:16 410 39.98N	144.56E -50229	•729 •31	4/30/77 0520	12:51 379 36.93N	140.83E -60135 .288 .47

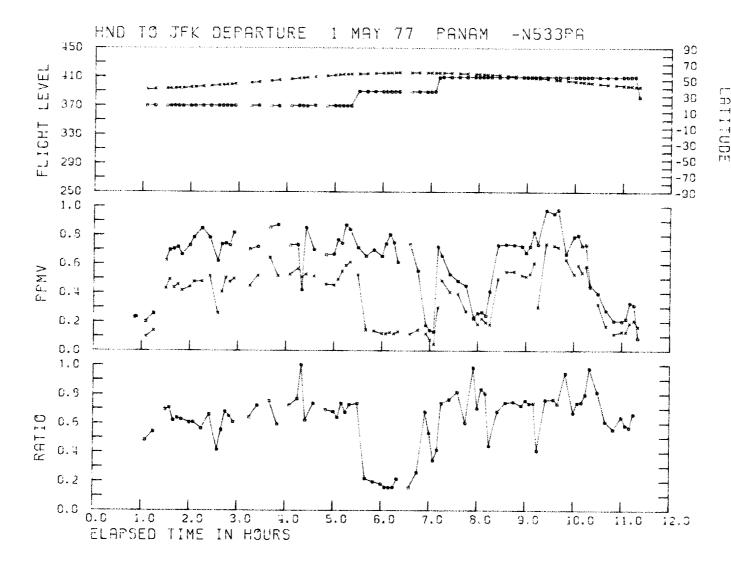


MAXIMUM VALUES: AMBIENT OZONE= .820 CABIN OZONE= .532 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.08 TOTAL OBS IN CABIN: 61 DATA SOURCE: GASP TAPE VLU10, FILE 2



MAXIMUM VALUES: AMBIENT OZONE=1.091 CABIN OZONE= .541 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.20 TOTAL OBS IN CABIN: 76
DATA SOURCE: GASP TAPE VL010, FILE 2

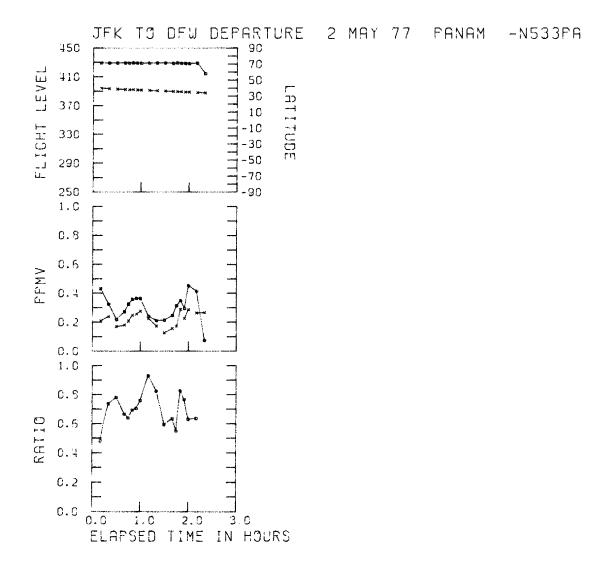
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MO/[	A/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
	4/30/77 4/30/77				35.52N 36.66N	120.23W 121.23W		•135 •467	•219 •681	•62 •69		1/77 1/77				58.07N 58.03N	170.88W 172.18W		.161 .160	•778 •859	.21 .19
	4/30/77		_		37.85N	122.16W		.475	•693			1/77			. ** .	57.93N	174.76W		.168	852	.20
	4/30/77	2057	0:40	370	38.99N	123.27W	-50.	.444	•580	•77	5/	1/77	0142	5:25	390	57.77N	177.33W	-42.	.156	•705	.22
	4/30/77		-		39.56N	123.83W		.357	•440			1/77				57.55N	179.86W		.147	∙698	.21
	4/30/77				40.13N	124.41W		.358	•461	•78		1/77		_		56,95N	177.89E		.205	•813	.25
	4/30/77				40.69N	125.00W		.385	•482			1/77				56.62N	176.80E		.323	•422	•77
	4/30/77		-		41.25N	125.59W		-368	•466			1/77		and the second second	air.	56.27N	175.74E		.281	•416	.68
	4/30/77				42.36N 42.90N	126.82W		.418	•608			1/77				55.92N 55.56N	174.71E		.161	•524	.31
	4/30/77		_		42.90N	127.43W 128.70W			•690 •756			1/77		,		55.19N	173.70E		•144 •088	•637	.23 .14
	4/30/77		_		45.03N	130.02W		.526	•751			1/77				54.44N	170.76E		.116	•647 •772	.15
	4/30/77				45.82N	131.73W		.259	•608			1/77				53.71N	168.79E		.150	•679	.22
	4/30/77		-		46.21N	132.60W			•637			1/77				53.00N	166.79E		.156	694	.22
	4/30/77				46.58N	133.47W			•531			1/77				52.27N	164.89E			1.004	.17
	4/30/77	2217	2:00	370	46.95N	134.36W	-51.	.359	•522	•69	5/	1/77	0312	6:55	410	51.90N	163.97E	-46.	.222	1.091	.20
	4/30/77	2222	2:05	370	47.32N	135.26W	-53.	.389	•572	•68	5/	1/77	0317	7:00	410	51.51N	163.07E	-47.	.259	1.000	.26
	4/30/77				47.67N	136.18W			•507			1/77				51.12N	162.17E			1.05%	.22
	4/30/77				48.36N	138.03W				1.06		1/77				50.73N	161.31E		.210	•975	.22
	4/30/77		-		49.01N	139.93W			•067			1/77				49.94N	159.65E			1.045	.31
	4/30/77		-		49.95N	141.60W		.178		1.20		1/77				49.13N	158.07E		.193	•938	15.
>	4/30/77 4/30/77				50.86N 51.30N	143.25W 144.09W		•122 •395	• 257			1/77				48.28N 47.42N	150.53E 155.04E		.225	•792	.28
A-89	4/30/77				51.30N	144.03W		.227	•754 •588			1/77				46.98N	154.326		.141	•668 •693	.21
_	4/30/77				52.16N	145.80W		.172	•719			1/77				46.54N	153.61E		.153	•701	.22
	4/30/77				52.57N	146.66W		.157	•703			1/77				46.09N	152.90E		.099	•726	.14
	4/30/77				53.75N	149.31W		.160	•641			1/77				45.63N	152.21E		.162	•704	23
	4/30/77				54.47N	151.19W		.198	•693			1/77				44.71N	150.85E		.199	.734	.27
	5/ 1/77	0007	3:50	390	55.46N	154.21W	-44.	.094	•773	•12	5/	1/77	0447	8:30	410	43.77N	149.51E	-50.	.152	.748	.20
	5/ 1/77		3:55	390	55.77N	155.24W	-44.	.177	•717	• 25		1/77				42.85N	148.23E		.157	.826	.19
	5/ 1/77				56.08N	156.31W	_	.126	•677	•19		1/77		-		41.92N	146.99E		.151	•579	. 26
	5/ 1/77				56.38N	157.39W		.157	•687			1/77				41.43N	146.37E		.152	•593	.26
	5/ 1/77				56.95N	159.62W		.209	•709	•29		1/77				40.96N	145.78E		.174	-569	.31
	5/ 1/77	-			57.33N	162.00W		.160	•670			1/77	_			40.50N	145.20E		.184	•611	.30
	5/ 1/77				57.61N	164.46W		•091	•691	•13		1/77				40.04N	144.61E		.163	•534	.31
	5/ 1/77 5/ 1/77		_		57.85N 57.96N	167.00W 168.29W		•154 •174	•850 •707			1/77				39.09N 38.15N	143.43E 142.31E		.117 .093	•323 •172	.36 .54
	5/ 1/77				58.05N	169.58W		.175	•753			1/77					142.51E		.077	•099	• 5 🕶
	37 17 11	V 4 1 2	4.72	370	20 . U 2 N	TOSTOM	-410	• * • 3	• 100	• 2 3	3,	1/11	0001	,		304771	, FE SUCL	0,.	• 0 . 1	• 0 27	



MAXIMUM VALUES: AMBIENT OZONE= .978 CABIN OZONE= .741 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.22 TOTAL OBS IN CABIN: 79 DATA SOURCE: GASP TAPE VLO10, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL LAT		TEMP	OZONE (	PMV)	RATIO
5/ 1/77 1055	1:05 370 38.39N	151.54E -59.	.098 .203	• 48	5/ 1/77	1628	6:34 3	90 59.42N	136.89W	-69	116	70.	1.6
5/ 1/77 1105	1:15 370 38.78N	153.23E -58.	.140 .258		5/ 1/17			90 59.41N	134.10w		•116 •145	•73A	.16
5/ 1/77 1120	1:30 370 39.33N	155.89E -53.		•69	5/ 1/77			89 59.35N	131.32W			•554	• 26
5/ 1/77 1125	1:35 370 39.51N	156.82E -51.	.494 .697		5/ 1/77			89 59.30N	129.95W		.120 .076	•177	-68
5/ 1/77 1130	1:40 370 39.68N	157.77E -51.	.438 .705	•62	5/ 1/77			90 59.24N	128.61W			-142	•54
5/ 1/77 1135	1:45 370 39.84N	158.69E -49.	.458 .718	•64	5/ 1/77			09 59.16N	127.26W		•046	•133	.35
5/ 1/77 1140	1:50 370 39.99N	159.64E +49.	•419 •667	•63	5/ 1/77			10 59.06N	125.90W		.300	•720	. 42
5/ 1/77 1150	2:00 370 40.66N	161.35E -49.	.443 .730	•61	5/ 1/77			10 58.84N	123.90W		•486	•658	•74
5/ 1/77 1155	2:05 370 41.05N	162.22E -49.	.477 .785	•61	5/ 1/77			10 58.55N	120.63W		•406	•531	.76
5/ 1/77 1205	2:15 370 41.82N	164.02E -48.	.479 .848	•56	5/ 1/77			10 58.20N	11/.98W		.394	•483	-82
5/ 1/77 1215	2:25 370 42.57N	165.89E -49.	.518 .784	•66	5/ 1/77			10 57.80N	117.90W		.273	•452	.60
5/ 1/77 1225	2:35 370 43.30N	167.82E -50.	.260 .622	•42	5/ 1/77			10 57.58N				-230	.98
5/ 1/77 1230	2:40 370 43.65N	168.80E -49.	.408 .738	•55	5/ 1/77			10 57.34N	114.13W · 112.85W ·			•261	.70
5/ 1/77 1235	2:45 370 44.01N	169.81E -51.	.505 .743	•68	5/ 1/77	_		10 57.09N	111.60W		•224	•268	.84
5/ 1/77 1240	2:50 370 44.44N	170.79E -52.	.477 .732	•65	5/ 1/77	-		10 56.83N	110.35w			•245	-81
5/ 1/77 1245	2:55 370 44.89N	171.77E -52.	.498 .817	•61	5/ 1/77			10 56.27N	107.90w		.182	•410	• 44
5/ 1/77 1305	3:15 370 46.56N	175.96E -49.	.451 .703	•64	5/ 1/77			10 55.67N	105.52W			•731	.68
5/ 1/77 1315	3:25 370 47.36N	178.14E -49.	.520 .720	•72	5/ 1/77			10 55.01N	103.52W		•549	•738	.74
5/ 1/77 1333	3:43 370 48.94N	177.98W -47.	.645 .856	•75	5/ 1/77			10 54.28N	100.83W		•550	.734	.75
5/ 1/77 1343	3:53 370 49.82N	175.92W -47.	.519 .873	•59	5/ 1/77			10 53.91N	99.74W -		•524 •516	•725	.72
5/ 1/77 1358	4:08 370 51.08N	172.67W -45.	.529 .731	.72	5/ 1/77	_		10 53.52N	98.64W			•681	.76
5/ 1/77 1408	4:18 370 52.06N	170.67W -43.	.565 .735	•77	5/ 1/17			10 53.12N	97.55W -			•724 •822	.74
5/ 1/77 1413	4:23 370 52.52N	169.67W -43.	,	1.22	5/ 1/77			10 52.71N	96.48W			•739	.74
5/ 1/77 1418	4:28 369 52.98N	168.65W -42.	.530 .851	•62	5/ 1/77			10 51.86N	94.41W			• 139	.41
5/ 1/77 1428	4:38 370 53.86N	166.55W -42.	.516 .700	•74	5/ 1/77			10 50.98N	92.42W -			•914	•76
5/ 1/77 1443	4:53 370 55.09N	163.29W -40.	.460 .664	•69	5/ 1/77			10 50.53N	91.46W -			•957 •978	•77
5/ 1/77 1453	5:03 370 55.94N	161.71W -41.	.454 .668	•68	5/ 1/77	_		10 49.61N	89.59W -				.73
5/ 1/77 1458	5:08 370 56.47N	160.83W -40.	.493 .768	.64	5/ 1/77	_		10 48.65N	87.78W -			•67() •79()	•94
5/ 1/77 150 <del>3</del>	5:13 370 56.95N	159.85W -40.	.550 .746	.74	5/ 1/77			10 48.16N	86.89W -		_	• 80n	.61
5/ 1/77 1508	5:18 370 57.12N	158.54W -40.	.589 .871	•68	5/ 1/77			10 47.69N	80.05W -			•730	.74
5/ 1/77 1513	5:23 370 57.29N	157.23W -39.	.613 .842	•73	5/ 1/77			10 47.17N	85.27W -			•737	•74
5/ 1/77 1523	5:33 390 57.58N	154.59W -40.	.526 .714	.74	5/ 1/77			10 46.63N	84.54W -			• 131 • 452	.80 .98
5/ 1/77 1533	5:43 390 57.85N	151.92W -39.	.144 .656	•22	5/ 1/77			10 45.69N	82.92W -			• <del>4</del> 32 • <b>39</b> 9	-
5/ 1/77 1543	5:53 390 58.33N	149.31W -42.	.138 .698	.20	5/ 1/77			LO 44.84N	81.22W +				.81
5/ 1/77 1553	6:03 389 58.74N	146.62W -43.	.120 .655	•18	5/ 1/77			LO 44.11N	79.44W -			•280 •210	•61
5/ 1/77 1558	6:08 390 58.92N	145.27W -45.	.119 .741	•16	5/ 1/17			10 43.27N	77.83w -			•210 •206	.50
5/ 1/77 1603	6:13 390 59.09N	143.89W -46.	.127 .804	-16	5/ 1/77			0 42.89N	76.95W -			• 222	.64
5/ 1/77 1608	6:18 389 59.25N	142.49W -46.	.120 .751	•16	5/ 1/77			10 42.48N	76.16W -			• <i>222</i> •331	.57
5/ 1/77 1613	6:23 390 59.32N	141.08W -46.	.133 .614	• 22	5/ 1/77			0 42.13N	75.32W -			•331 •319	-
					5/ 1/77			33 41.81N	74.45W -			•319	.66
					2. 17.1	-215		+1.0114	1.4.4.74	JJ.	• 105	• VOR	

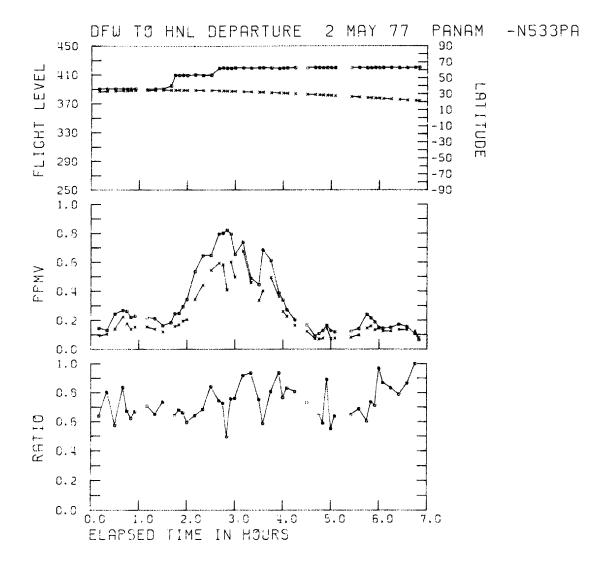
A-91



JFK TO DFW (PAGE 1 OF 1) DEPARTURE: 2 MAY 77 AIRCRAFT: PANAM -N533PA

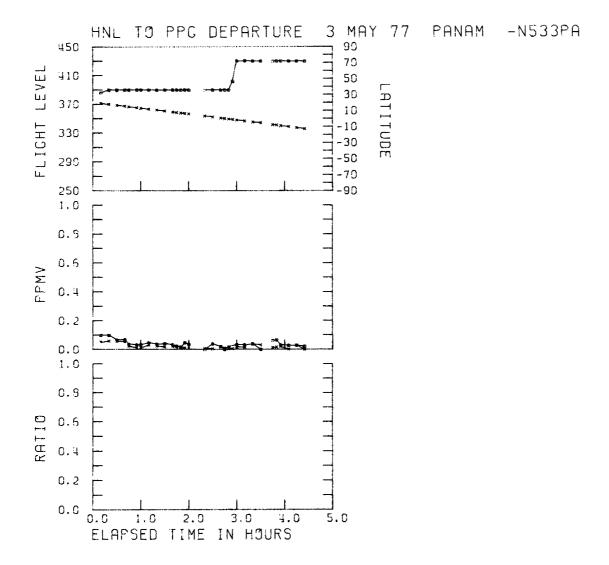
MAXIMUM VALUES: AMBIENT OZONE= .453 CABIN OZONE= .289 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .93 TOTAL OBS IN CABIN: 18 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR G	3MT	ETIM HR:MN	FL	LAT	LONG	-	CARIN			MOZNAZYR	GMT	ETIM FL HR:MN	LAT	LONG	TEMP	CARIN OSONE (		
5/ 2/11 15	22	0:13	429	39.91N	76.05W	-68•	.208	•432	•48	5/ 2/77	1632	1:23 429	36.85N	85.93W	-70.	.174	•211	.82
5/ 2/77 15	32	0:23	429	39.36N	77.44W	-69.	.239	• 325	• 74	5/ 2/77	1642	1:33 429	36.42N	87.36W	-67.	.127	.214	.59
5/ 2/77 15	942	0:33	429	38.80N	78.79W	-70.	.170	.218	.78	5/ 2/11	1652	1:43 429	35.97N	88.77W	-66.	.156	.246	.63
5/ 2/77 15	250	0:43	429	36.37N	80.21W	-71.	.181	.272	•67	5/ 2/71	1657	1:48 430	35.74N	89.47W				
5/ 2/77 15	57	0:48	429	38.19N	80.94W	-70.	.208	• 325	•64	5/ 2/77	1702	1:53 429	35.50N	90.18W				
5/ 2/77 16	002	0:53	429	38.02N	81.67W	-68•	.248	• 358	•69	5/ 2/17	1707	1:58 429	35.25N	90.92W				
5/ 2/77 16	07	0:58	429	37.83N	82.39W	-68.	.257	• 365	•70	5/ 2/77	1712	2:03 429	34.49N	91.65W				
5/ 2/77 16	12	1:03	429	37.65N	83.10W	-68.	.276	.364	.76	5/ 2/17	1722	2:13 429	34.47N	93.06W				
5/ 2/77 16	22	1:13	429	37.26N	84.53W	-70.	.226	•243	•93	5/ 2/77	1732	2:23 415		94.53W				•



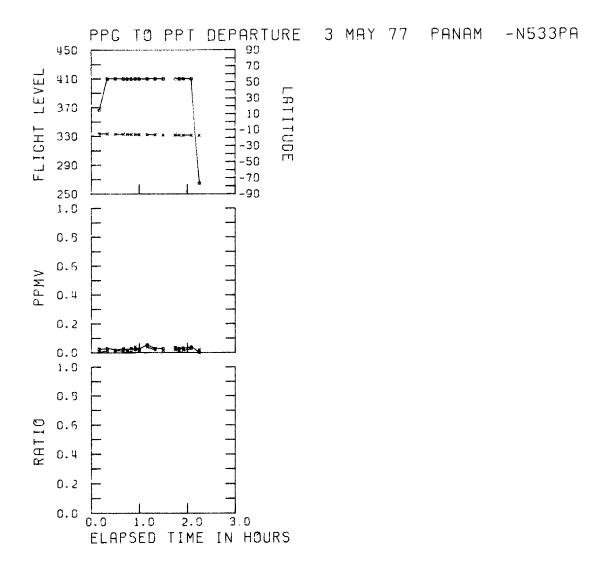
MAXIMUM VALUES: AMBIENT OZONE= .821 CABIN OZONE= .677 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)≈ 1.18 TOTAL OBS IN CABIN: 50 DATA SOURCE: GASP TAPE VL010, FILE 2

МОИ	DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(		RATIO	MOZDAZYR	GMT	ETIM H HRIMN	FL LAT	LONG		OZONE (		RATIO
5,	2/77	1951	0:13	391	33.39N	99.57W	-62.	.094	•147	•64	5/ 2/77	2309	3:31 4	20 32.18N	128.24W	-57.	.335	• 445	.75
5,	2/77	2001	0:23	391	33.76N	101.02W	-62.	.105	•131	-80	5/ 2/77	2314	3:36 4	20 31.98N	129.00W	-58.	.401	•683	•59
5,	2/77	2011	0:33	391	34.12N	102.48W	<b>-61</b> •	.140	.244	•57	5/ 2/77	2324	3:46 4	20 31.55N	130.57W	-59.	•493	•611	.81
5,	2/77	2021	0:43	391	34.45N	103.93W	-61.	.224	•268	•84	5/ 2/77	2334	3:56 4	19 31.10N	132.16W	-64.	.362	•387	•94
5,	2/77	2026	0:48	391	34.60N	104.65W	-61.	.177	• 263	•67	5/ 2/17	2339	4:01 4	19 30.85N	132.92W	-66.	.260	•339	•77
5,	2/77	2031	0:53	391	34.75N	105.36W	-62.	.138	• 222	•62	5/ 2/77	2344	4:06 4	19 30.63N	133.68W	-68.	.226	.272	د8.
5,	2/77	2036	0:58	391	34.90N	106.07W	-62.	.153	• 229	.67	5/ 2/77	2354		20 30.15N	135.19W	-69.	.164	•203	18.
5,	2/77	2049	1:11	391	35.05N	107.99W	-61.	.155	•219	•71	5/ 3/77	0009	40 A 40 A	20 29.40N	137.44W	-68.	.122	•167	.73
5,	/ 2/77	2059	1:21	391	35.05N	109.44W	-62•	.138	•212	• 65	5/ 3/77		and the same of th	20 28.94N	138.76W	-69.	.072	•091	
5,	2/77	2109	1:31	391	35.230	110.83W	<del>-</del> 63•	.120	•163	• 74	5/ 3/77			20 28.62N	139.64W	-69.	.069	•107	<b>.</b> 64
5.	2/77	2119	1:41	395	35.13N	112.17W	-63.		•183		5/ 3/77		4:51 4	20 28.35N	140.36W	-69.	.075	•127	•59
5,	/ 2/77	2124	1:46	410	35.10N	112.85W	-63•	.158	• 245	•64	5/ 3/77	0034	4:50 4	20 28.08N	141.09W	-69.	.145	•163	.89
5,	/ 2/77	2129	1:51	410	35.05N	113.54W	-63•	.168	• 247	•68	5/ 3/77		5:01 4	20 27.81N	141.79W	-69.	.071	•129	<b>.</b> 55
5,	2/77	2134			35.00N	114.23W	-62.	.194	•293	•66	5/ 3/77		5:06 4	20 27.53N	142.48W	-69.	.076	•119	•64
	2/77		2:01	410	34.94N	114.93W		.204	• 343	•59	5/ 3/77		-	20 26.43N	145.18W		.081	•125	-65
5,	2/77	2149	2:11	410	34.81N	116.34W	-59.	د4د.	•535	•64	5/ 3/17		5:36 4	20 25.86N	146.51W	-70.	.097	•141	•69
5,	2/77	2159	2:21	410	34.65N	117.77W	<b>~</b> 58•	•441	•645	•68	5/ 3/77		5:46 4	19 25.26N	147.85W	-66.	.145	•240	.60
	/ 2/77		2:31	410	34.54N	119.30W		•543	•646	•84	5/ 3/77			19 24.96N	148.52W		.159	•216	• 74
	1 2/77	_			34.18N	120.75W	-54.	•592	• 795	• 74	5/ 3/77			20 24.67N	149.16W		.134	•188	.71
	2/77				33.92N	121.44W		.582	•800	• 73	5/ 3/77			20 24.37N	144.79W		.145	<ul><li>150</li></ul>	.97
	2/77				33.65N	122.15W		.407	•821	•50	5/ 3/77			20 24.07N	150.42W		.126	•145	.87
	2/77	_		. –	33.42N	122.88W	-54.	.601	• 795	• 76	5/ 3/77			20 23.48N	121.66M		.125	•150	.83
	/ 2/77				33.26N	123.66W		•496	•652		5/ 3/77	,	and the second second	20 22.86N	154.90W		.135	•171	•79
	2/77	_	3:11	420	32.92N	125.15W	-54.	.677	•738	•92	5/ 3/77			20 22.21N	154.09W		.134	•155	.86
5,	2/77	2259	3:21	419	32.56N	126.69W	<b>-</b> 55•	•457	•489	•93	5/ 3/77			20 21.56N	155.26W		.126	<ul><li>107</li></ul>	1.18
											5/ 3/77	0559	6:51 4	20 21.24N	155.82W	-64.	.077	• 065	



MAXIMUM VALUES: AMBIENT OZUNE= .098 CABIN OZONE= .058 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 31 DATA SOURCE: GASP TAPE VL010, FILE 2

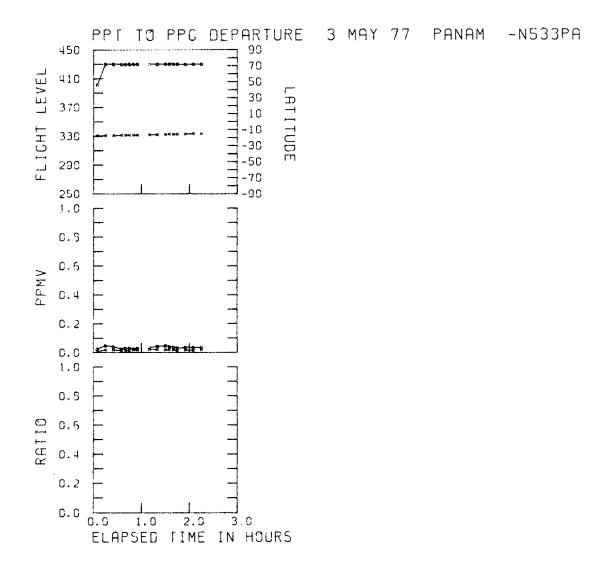
	ETIM FL LAT		ONE(PPMV) RATIO BIN AMB.	MO/DA/YR GMT	ETIM FL LAT HŘ:MN	LONG TEMP OZONE(DPMV) RATIO
5/ 3/77 0522 5/ 3/77 0532 5/ 3/77 0542	0:10 386 19.26N 0:20 390 18.04N 0:30 390 16.83N 0:40 390 15.59N 0:45 390 14.98N 0:55 390 13.78N 1:00 390 13.19N 1:10 390 11.97N 1:20 390 10.74N 1:30 390 9.54N 1:40 390 8.33N 1:45 390 7.71N 1:50 390 7.11N 1:55 390 5.88N	159.23w -56. 159.67w -56. 159.89w -57. 160.35w -55. 160.57w -55. 161.03w -55. 161.50w -55. 161.94w -55. 162.39w -54. 162.62w -54. 162.84w -55. 163.07w -55.	052	5/ 3/77 0722 5/ 3/77 0732 5/ 3/77 0742 5/ 3/77 0747 5/ 3/77 0752 5/ 3/77 0852 5/ 3/77 0812 5/ 3/77 0812 5/ 3/77 0822 5/ 3/77 0832 5/ 3/77 0852 5/ 3/77 0857 5/ 3/77 0917 5/ 3/77 0917 5/ 3/77 0917	2:20 390 3.32N 2:30 390 2.01N 2:40 390 .69N 2:45 390 .63S 2:55 402 1.28S 3:00 430 3.16S 3:10 430 3.16S 3:20 430 4.41S 3:30 430 5.23S 3:45 430 7.62S 3:50 430 8.28S 3:55 430 8.28S 3:55 430 10.20S 4:15 430 11.47S 4:25 430 12.77S	164.69W -55004 .038 165.16W -54018 .019 165.40W -55008 .0.000 165.64W -55005 .018 165.87W -58005 166.10W +65019 .032 166.55W -65014 .031 167.01W -65037 .038 167.30W -66037 .038 167.30W -66030 .0.000 168.18W -65013 .062 168.42W -65016 .065 168.66W -65020 .030 169.13W -65020 .030 169.13W -65028 .027



PPG TO PPT (PAGE 1 OF 1) DEPARTURE: 3 MAY 77 AIRCRAFT: PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE= .054 CABIN OZONE= .041 RATIO (LIMITED TO AMB. OZONE ABOVE U.1)=\*\*\*\*\* TOTAL OBS IN CABIN: 16

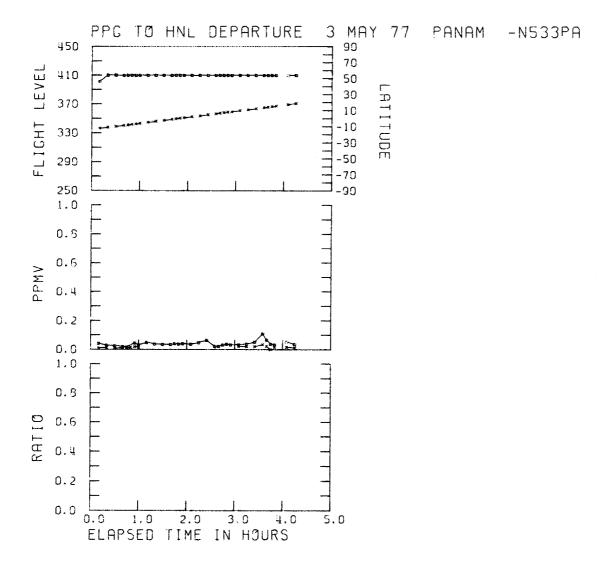
MO/DA/YR GMT	ETIM F HR:MN	L LAT		OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(SPMV) RATIO CABIN AMB.
5/ 3/77 1115 5/ 3/77 1125 5/ 3/77 1135 5/ 3/77 1145 5/ 3/77 1150 5/ 3/77 1155 5/ 3/77 1200 5/ 3/77 1205	0:20 41 0:30 41 0:40 41 0:45 41 0:50 41 0:55 41	0 14.98S 0 15.24S 0 15.48S 0 15.60S 0 15.71S 0 15.82S	168.62W -48. 167.25W -59. 165.87W -60. 164.48W -60. 163.78W -60. 163.08W -60. 162.38W -60. 161.68W -60.	.015 .030 .017 .018 .011 .028 .004 .018 .005 .030 .041 .022	5/ 3/77 1215 5/ 3/77 1225 5/ 3/77 1235 5/ 3/77 1250 5/ 3/77 1255 5/ 3/77 1300 5/ 3/77 1310 5/ 3/77 1320	1:10 410 16.145 1:20 410 16.345 1:30 410 16.545 1:45 410 16.815 1:50 410 16.925 1:55 410 16.995 2:05 410 17.175 2:15 265 17.365	158.85W -59. 157.41W -60. 155.25W -60. 154.52W -61. 153.79W -61. 152.33W -60.	.019 .029 .016 .028 .021 .036 .015 .029 .017 .032 .028 .040



PPT TO PPG (PAGE 1 OF 1) DEPARTURE: 3 MAY 77 AIRCRAFT: PANAM -N533PA

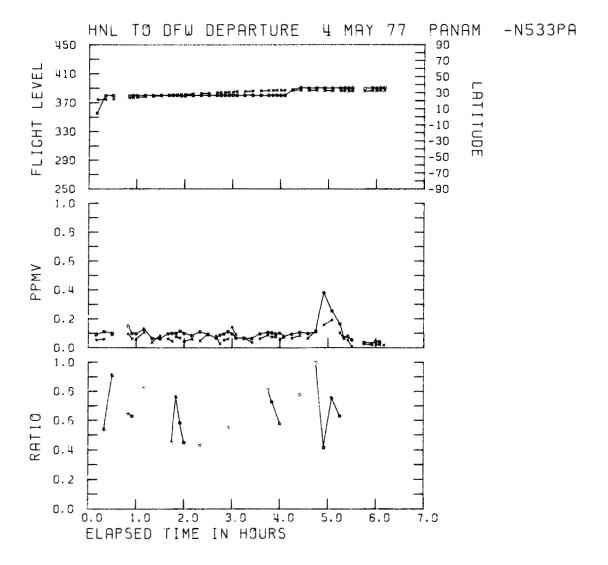
MAXIMUM VALUES: AMBIENT OZONE= .047 CABIN OZONE= .023 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)=\*\*\*\*\* TOTAL OBS IN CABIN: 17 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FI HR:MN	L LAT	 OZONE (PPMV) CABIN AMB.	 MOZĐAZYR	GMT	ETIM FL HR:MN	LAT		CABIN OZONE (	PMV) R	RATIO
5/ 3/77 1823 5/ 3/77 1833 5/ 3/77 1843 5/ 3/77 1853 5/ 3/77 1858 5/ 3/77 1903 5/ 3/77 1908 5/ 3/77 1913	0:15 43 0:25 43 0:35 43 0:40 43 0:45 43 0:50 43	0 17.02S 0 16.86S 0 16.78S 0 16.69S 0 16.61S	.019 .047 .019 .040 .014 .025 .014 .029 .015 .031 .020 .025	5/ 3/77 5/ 3/77 5/ 3/77 5/ 3/77 5/ 3/77 5/ 3/77 5/ 3/77 5/ 3/77	1938 1948 1953 1958 2003 2013 2023	1:20 430 1:30 430 1:35 430 1:40 430 1:45 430 1:55 430 2:05 430	16.04S 15.84S 15.73S 15.63S 15.51S 15.28S 15.04S	159.79W -65. 101.09W -05. 162.39W -65. 163.03W -65. 163.68W -65. 164.34W -65. 165.68W -65. 167.01W -65. 168.34W -65.	.021 .020 .019 .019 .015 .018	.043 .047 .041 .037 .032	



MAXIMUM VALUES: AMBIENT OZONE= .108 CABIN OZONE= .033 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .31 TOTAL OBS IN CABIN: 17 DATA SOURCE: GASP TAPE VL010, FILE 2

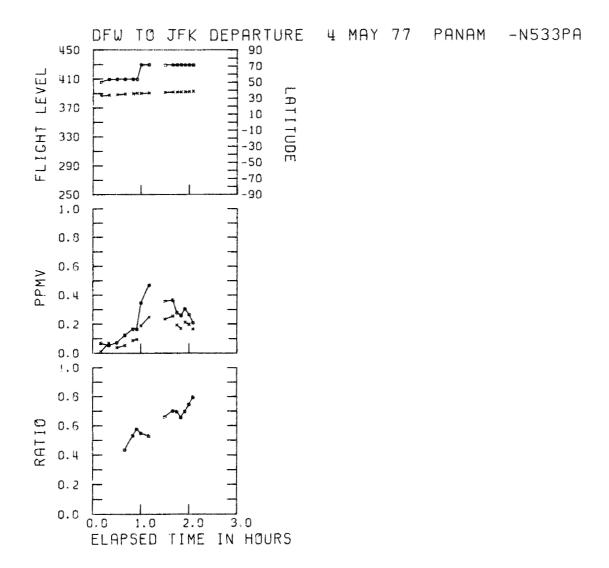
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZUNE(F		R GMT ETIM FL LA HR:MN	T LONG TEMP (C)	OZONE (APMV) RATIO CABIN AMB.
5/ 3/17 2234 5/ 3/17 2244 5/ 3/17 2304 5/ 3/17 2309 5/ 3/17 2314 5/ 3/17 2319 5/ 3/17 2319 5/ 3/17 2334 5/ 3/17 2344 5/ 3/17 2354 5/ 3/17 2354 5/ 4/17 0004 5/ 4/17 0019 5/ 4/17 0019 5/ 4/17 0029	0:10 401 12.32S 0:20 410 11.03S 0:30 410 9.76S 0:40 410 8.50S 0:45 410 7.89S 0:55 410 6.65S 1:00 410 6.03S 1:10 410 4.76S 1:20 410 3.49S 1:30 410 2.21S 1:40 410 92S 1:45 410 .28S 1:55 410 .98N 2:05 410 2.23N	169.93W -57011 169.45W -60012 168.97W -60010 168.51W -59011 168.28W -60014 167.83W -60019 167.60W -60016 167.15W -60016 166.23W -60166.23W -60165.54W -59165.31W -59165.09W -59164.65W -59.	.042 5/ 4/T .028 5/ 4/T .025 5/ 4/T .019 5/ 4/T .015 5/ 4/7 .045 5/ 4/7 .030 5/ 4/T .048 5/ 4/T .034 5/ 4/T .034 5/ 4/T .034 5/ 4/T .036 5/ 4/T .037 5/ 4/T	7 0049	02N 163.29W -60.62N 163.08W -60.24N 162.85W -60.86N -61.49N -61.75N 161.94W -61.29N 161.00W -61.52N 160.52W -61.22N 160.28W -61.28N 160.03W -61.52N 159.79W -61.44N 159.04W -61.	.064 .022 .021 .032 .036 .037 .021 .033 .020 .038 .020 .051 .033 .108 .31 .022 .067 .000 .038 .016 .032



MAXIMUM VALUES: AMBIENT OZONE= .380 CABIN OZONE= .192 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.04 TOTAL OBS IN CABIN: 46
DATA SOURCE: GASP TAPE VL010, FILE 2

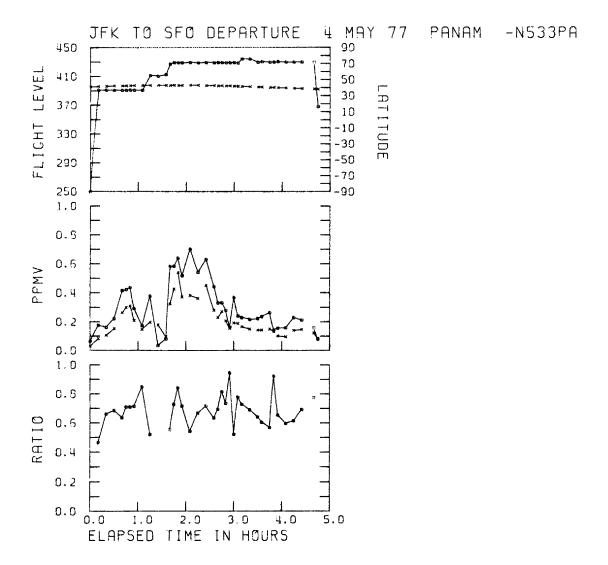
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

MO/DA/YR G	мт	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO	MOZDAZYR	GMT	ETIM HŘÍMN	FL LAT	LONG	TEMP	OZONE ( CABIN		RATIO
5/ 4/77 05	36	0:10	356	21.87N	155.63W	-50.	.054	•089		5/ 4/77	0841	3:15 3	80 31.89	N 129.40W	-57.	.069	•065	
5/ 4/77 05	46	0:20	380	22.30N	154.08W	-56.	.060	•111	•54	5/ 4/77	0851	3:25 3	80 32.25	N 127.89W	-59.	.036	• 064	
5/ 4/77 05	56	0:30	380	22.97N	152.66W	-55•	.091	•100		5/ 4/17	0901	3:35 3	80 32.63	N 126.38W	-59.	.062	.097	
5/ 4/77 06	16	0:50	08E	24.31N	149.88W	-57.	.096	•149	•64	5/ 4/77	0911	3:45 3	180 32.98	N 124.87W	-59.	.087	<ul><li>107</li></ul>	.81
5/ 4/77 06	21	0:55	380	24.63N	149.22W	-59.	.003	•100		5/ 4/77	0916	3:50 3	80 33.15	N 124.10W	-59.	.075	•103	.73
5/ 4/77 06	26	1:00	380	24.93N	148.55W	-59.	.060	•097		5/ 4/77	0921	3:55 3	180 33.32	N 123.33W	-59.	.076	•097	
5/ 4/77 06	36	1:10	380	25.53N	147.22W	-60•	.106	•129	•82	5/ 4/77	0926	4:00 3	180 33.47	N 122.54W	-60.	.059	•102	.5 <b>ë</b>
5/ 4/77 06	46	1:20	380	26.12N	145.87W	-60•	.038	• 065		5/ 4/77	0931	4:05 3	180 JJ.44	N 121.72W	-60.	.075	·078	
5/ 4/77 06	56	1:30	380	26.70N	144.49W	<b>~60•</b>	.082	•061		5/ 4/77	0941	4:15 3	188 33.36	N 120.08W	-62.	.066	• 094	
5/ 4/77 07	-	1:40	380	27.26N	143.11W	-59.	.062	•097		5/ 4/77		4:25 3	33.29	N 118.40W	-61.	.083	•107	.78
5/ 4/77 07	11	1:45	380	27.54N	142.41W	-59.	.045	•100		5/ 4/77	1002	4:30 3	390 33.13	N 116.60W	-60.	.066	•099	
5/ 4/77 07	16	1:50	380	27.82N	141.70W	-59.	.076	•100		5/ 4/77	1012	4:40 3	190 32.96	N 114.94W	-60.	.115	•111	1.04
5/ 4/77 07	21	1:55	379	28.U9N	141.00W	-59.	.067	•115	•58	5/ 4/77	1022	4:50 3	190 32.8	N 113.29W	-60.	.158	• 380	.42
5/ 4/77 07	26	2:00	379	28.36N	140.31W	-59.	.045	•100		5/ 4/77	1032	5:06 3	190 32.64	N 111.59W	-60.	.192	•255	.75
5/ 4/77 07	36	2:10	380	28.87N	138.91W	-59.	.060	•084		5/ 4/77	1042	5:10 3	190 32.45	N 109.84W	-60.	.104	<ul><li>165</li></ul>	•6J
5/ 4/77 07	46	2:20	08E	29.37N	137.50W	-59.	.048	•111	•43	5/ 4/77	1047	5:21 3	390 32.34	N 108.94W	-60.	.063	•072	
5/ 4/77 07	56	2:30	380	29.85N	136.06W	-59.	.094	•092		5/ 4/77	1052	5:26 3	190 32.22	N 100.03W	-60.	.052	•07E	
5/ 4/77 08	06	2:40	380	30.32N	134.62W	-59.	.082	•067		5/ 4/77	1057	5:31 3	190 32.09	N 107.12W	-61.	.007	• 055	
5/ 4/77 08	11	2:45	380	30.55N	133.89W	-58•	.027	•087		5/ 4/77	1112	5:46 3	190 32.22	N 104.27W	-62.	.027	•038	
5/ 4/77 08	16	2:50	380	30.78N	133.16W	-59.	.053	• 095		5/ 4/77	1122	5:50 3	190 32.49	N 102.38W	-62.	.019	•029	
5/ 4/77 08	21	2:55	380	31.00N	132.42W	-58.	.061	•111	•55	5/ 4/77	1128A	6:02 3	190 32.57	'N 101.21w	-62.	.025	• 045	
5/ 4/77 08	26	3:00	380	31.22N	131.67W	-58.	.142	•097		5/ 4/77	1133	6:07 3	190 32.67	N 100.27W	-62.	.021	•040	
5/ 4/77 08	31	3:05	380	31.43N	130.92W	-59•	.092	• 067		5/ 4/77	1138	9:is 3	90 32.79	N 99.34W	-62.	.019		



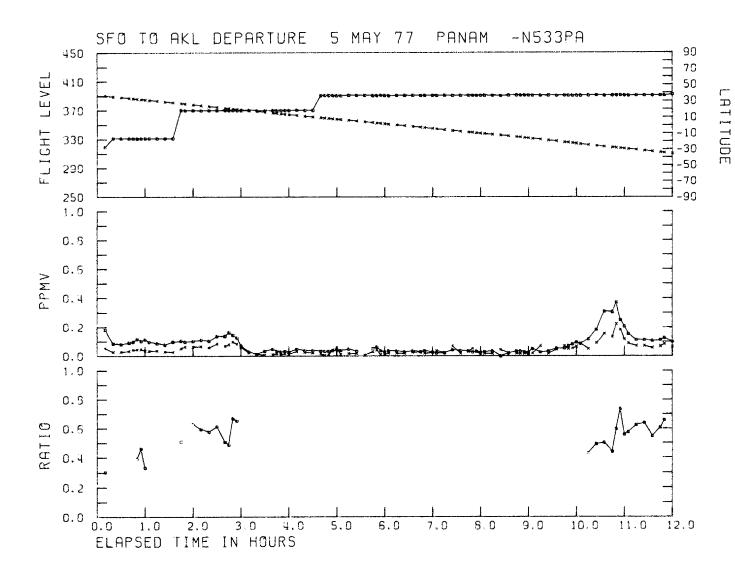
MAXIMUM VALUES: AMBIENT OZONE= .469 CABIN OZONE= .255 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .80 TOTAL OBS IN CABIN: 15 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(PPMV) RA CABIN AMB.	RYNACTIO MOZDAZYR	GMT ETIM FL LAT HR:MN		ZONE(@PMV) RATIO ABIN AMB.
5/ 4/77 1343 5/ 4/77 1353 5/ 4/77 1403 5/ 4/77 1413 5/ 4/77 1428 5/ 4/77 1428 5/ 4/77 1433	0:10 406 33.46N 0:20 409 34.18N 0:30 410 34.89N 0:40 410 35.55N 0:50 410 36.17N 0:55 410 36.46N 1:00 430 36.42N	88.49W -66. 87.73W -67.	.071 .053	•53 5/ 4/77 •58 5/ 4/77	1503	81.91W -64. 80.20W -67.	.213 .305 .70 .198 .266 .74



MAXIMUM VALUES: AMBIENT OZONE= .702 CABIN OZONE= .539 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .94 TOTAL OBS IN CABIN: 38 DATA SOURCE: GASP TAPE VL010, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TEMP (C)	OZUNE (PPMV) CABIN AMB.		MOZNAZYR	GMT	ETIM FL HR:MN	LAT	LONG TEM	P OZONE( CABIN		RATIO
5/ 4/17 2232 5/ 4/77 2242 5/ 4/77 2252 5/ 4/77 2302 5/ 4/77 2312	0:10 391 0:20 39: 0:30 39: 0:40 39:	1 41.65N 1 42.01N 1 42.37N 1 42.54N	74.17W -24. 75.63W -64. 77.13W -65. 78.71W -63. 80.35W -62.	.082 .176 .107 .162 .153 .223 .264 .415	•47 •66 •69 •64	5/ 5/77 0 5/ 5/77 0 5/ 5/77 0 5/ 5/77 0 5/ 5/77 0	0112 0117 0122 0127	2:35 429 2:40 429 2:45 429 2:50 429 2:55 429	42.58N 42.46N 42.34N 42.21N	99.06W -55 99.91W -53 100.77W -52 101.63W -53 102.49W -53	. 230 . 270 . 206 . 154	•442 •331 •331 •280 •163	.69 .82 .74 .94
5/ 4/17 2317 5/ 4/17 2322 5/ 4/17 2327 5/ 4/17 2337 5/ 4/17 2347 5/ 4/17 2357	0:50 39 0:55 39 1:05 39 1:15 41 1:25 41	1 42.67N 1 42.80N 1 43.02N 1 43.14N 1 43.13N	81.17W -62. 81.95W -62. 82.74W -64. 84.31W -64. 85.88W -66. 87.46W -68.	.310 .436 .209 .292 .148 .174 .197 .378 .179 .035	•71 •72 •85 •52	5/ 5/77 ( 5/ 5/77 ( 5/ 5/77 ( 5/ 5/77 ( 5/ 5/77 (	0141A 0146 0156 0206 0211	3:00 429 3:09 429 3:14 434 5:24 434 5:34 430 3:39 431 3:49 430	41.65N 41.65N 41.34N 41.01N 40.83N	103.34W -50 104.90W -52 105.70W -52 107.31W -53 108.87W -54 109.66W -53	<ul><li>.188</li><li>.167</li><li>.150</li><li>.143</li><li>.143</li></ul>	•368 •242 •229 •217 •223 •236	.78 .73 .69 .64
5/ 5/77 0007 5/ 5/77 0012 5/ 5/77 0022 5/ 5/77 0027 5/ 5/77 0037 5/ 5/77 0047 5/ 5/77 0057	1:40 42' 1:45 42' 1:50 42' 1:55 42' 2:05 42'	7 43.09N 9 43.06N 9 43.02N 9 42.98N 9 43.20N	89.01w -67.89.81w -65.90.65w -62.91.50w -60.92.34w -60.94.01w -57.95.73w -58.97.37w -54.	.323 .581 .425 .583 .539 .639 .371 .517 .382 .702	.56 .73 .84 .72 .54	5/ 5/17 0 5/ 5/17 0 5/ 5/17 0 5/ 5/17 0 5/ 5/17 0 5/ 5/17 0 5/ 5/17 0	0226 0231 0237 0251 0301	3:54 430 3:59 431 4:05 430 4:19 430 4:29 430 4:40 430 4:49 368	40.28N 40.09N 39.89N 39.29N 38.87N 38.43N	111.19W -53 111.97W -55 112.73W -54 113.50W -54 115.64W -58 117.04W -57 118.46W -58 119.79W -56	<ul><li>.132</li><li>.102</li><li>.095</li><li>.141</li><li>.147</li><li>.123</li></ul>	•263 •143 •156 •159 •229 •212 •159 •079	.57 .92 .65 .60 .62 .69



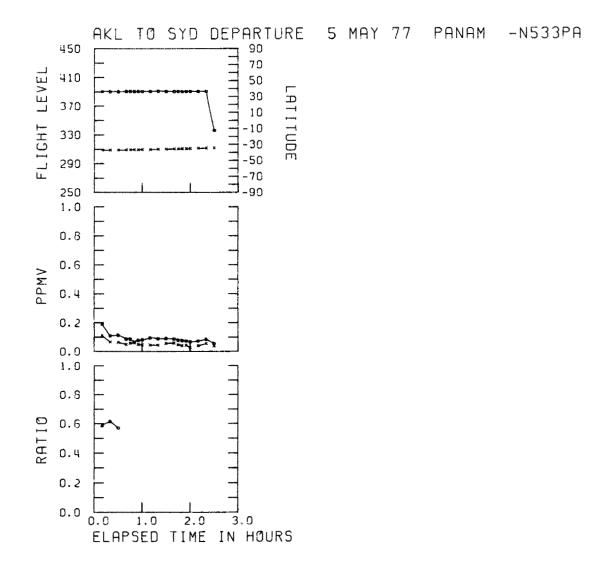
MAXIMUM VALUES: AMBIENT OZONE= .371 CABIN OZONE= .221 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .73 TOTAL OBS IN CABIN: 93 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE (	PPMV)	RATIO	MOZNAZYR	GMT	ETIM FL HR:MN	. LAT	LONG	TEMP (C)	OZONE ( CABIN	PMV)	RATIO
5/ 5/77 0	559	0:10	320	36.43N	124.38W	-47.	.055	•181	•30	5/ 5/17	1149	6:00 390	1.46N	155.39W	-55.	.015	•027	
5/ 5/77 0				35.57N	125.38W		.028	•086	•••	5/ 5/77		6:05 390		155.85W		.018	•036	
5/ 5/77 0				34.63N	126.35W			•081		5/ 5/77		6:15 39		156.76W		.018	•034	
5/ 5/77 0				33.64N	127.33W			• 092		5/ 5/77		6:25 39		15/.67w		.017	.028	
5/ 5/77 0	634	0:45	331	33.14N	127.82W	-48.	.044	•098		5/ 5/77	1224	6:35 39.	1.925	158.59W	<b>-</b> 55.	.025	.035	
5/ 5/77 0	639	0:50	331	32.64N	128.30W	-47.	.046	•117	•39	5/ 5/77	1234	6:45 39	2.895	159.51W	-55.	.027	•029	
5/ 5/77 0	644	0:55	331	32.14N	128.78W	-47.	.048	•104	•46	5/ 5/77	1239	6:50 39	3.375	159.97w	-55.	.019	• 035	
5/ 5/77 0				31.64N	129.24W			•114	•33	5/ 5/77		7:00 39		160.88W		.024	•027	
5/ 5/77 0				31.14N	129.70W			•097		5/ 5/77		7:05 39	-	161.35W		.037	• 02()	
5/ 5/77 0				30.12N	130.62W			•087		5/ 5/77		7:15 39		162.26W		.022	•021	
5/ 5/77 0		-		29.10N	131.55W			• 078		5/ 5/77		7:25 39		163.07W		.069	•042	
5/ 5/77 0		-		28.06N	132.47W		.028	098		5/ 5/77		7:35 39	-	163.99W		.017	•037	
5/ 5/77 0		_		27.01N	133.39W		.053	•104	•51	5/ 5/77		7:45 39:	-	165.05W		.031	•035	
5/ 5/77 0 5/ 5/77 0				26.48N	133.84W		.064	• 097	6.5	5/ 5/77		7:50 39: 7:55 39:		165.53W		.053	•027	
5/ 5/77 0	,	_		25.40N 24.32N	134,74W 135.62W		.065 .066	•103 •111	•63 •59	5/ 5/77 5/ 5/77		8:00 39		166.46W		.029	•033 •024	
5/ 5/77 0				23.24N	136.49W		.060	•104	•58	5/ 5/77	-	and the second second	10.175	166.95W		.013	•024	
5/ 5/77 0				22.17N	137.34W			•137	•61	5/ 5/77			11.615	16/.90W		.016	•035	
5/ 5/77 0				21.11N	138.16W		.070	•138	•51	5/ 5/77			12.545	168.84W			0.000	
5/ 5/77 0				20.58N	138.56W			•162		5/ 5/77			13.455	169.78w		.022	•018	
5/ 5/77 0				20.06N	138.95W			•145	•67	5/ 5/77			14.55\$	170.84W		.018	•033	
5/ 5/77 0				19.56N	139.36W		.083	•127	•65	5/ 5/77			15.125	171.20W		.017	• 035	
₹ 5/ 5/77 0 ± 5/ 5/77 0	849			19.05N	139.76W	_	.063	•073		5/ 5/77		8:57 39	15.665	171.55W	-55.	.018	.027	
<b>=</b> 5/ 5/77 0	859	3:10	371	18.06N	140.55W	-51.	.022	•030		5/ 5/77	1451	9:02 39	16.215	171.90W	-56.	.017	.023	
5/ 5/77 0	909	3:20	370	17.08N	141.32W	-51.	£10.	•011		5/ 5/77	1456	9:07 39	16.765	172.26W	-55.	.019	• 051	
5/ 5/77 0	919	3:30	370	16.06N	142.11W	-51•	.005	•033		<b>5</b> / 5/7 <i>1</i>	1506	9:17 39	17.875	172.98W	-56.	.070	.026	
5/ 5/17 0		3:40	370	15.04N	142.88W	-51•	.011	• 048		5/ 5/77			18.935	173.69W		.017	•033	
5/ 5/77 0				14.53N	143.27W			•033		5/ 5/77			20.005	174.41W		.045	•053	
5/ 5/77 0				14.01N	143.66W			•028		5/ 5/77			21.085	175.14W		.069	• 054	
5/ 5/77 0				13.48N	144.05W			•032		5/ 5/77	_		21.665	175.47W		.051	•070	
5/ 5/77 0				12.95N	144.45W		.013	•025		5/ 5/77			22.25S	175.79W		.054	•081	
5/ 5/77 0				11.94N	145.26W		.031	•048		5/ 5/77		10:02 39		176.12W		.065	• 095	
5/ 5/77 1				11.02N	146.19W		.024	•037		5/ 5/77		10:07 39		176.44W		.086	• 085	A 14
5/ 5/77 1 5/ 5/77 1		4:40		10.08N	147.12W 148.05W		.021	• 037		5/ 5/77 5/ 5/77		10:27 39		177.69W		.051 .090	•118 •183	.43 .49
5/ 5/77 1		4:45		9.13N 8.66N	148.51W		.004	•034		5/ 5/17	-	10:37 39		178.32W		.155	• 309	. <del>.</del>
5/ 5/77 1							.011	• 032		5/ 5/77		10:47 39	-	178.96W		.134	•305	.44
5/ 5/77 1		4:50		8.19N	148.96			• 034		5/ 5/77		10:52 39		1/9.28W		.221		
5/ 5/77 1		4:55 5:00		7.72N	149.42W 149.89W	-	.042	•037		5/ 5/77	_	10:57 39		179.59W		.183	•371 •249	60 د7.
5/ 5/77 1		5:05		7.24N 6.75N	150.36W		.059	• 042		5/ 5/77		11:02 39		179.92W		.115	•206	.56
5/ 5/77 1								•039		5/ 5/17	_	11:07 39		179.75E		.088	• 206 • 153	.50 .58
5/ 5/77 1		5:15 5:25		5.81N 4.86N	151.26W 152.17W			•048 •033		5/ 5/77		11:17:39		179.09E		.070	•112	.63
5/ 5/77 1		5:35		3.89N	153.09W		.017	• 033		5/ 5/77		11:27 39	-	178.41E		.071	•112	.64
5/ 5/77 1		5:45		2.92N	154.01W			• 052		5/ 5/77	-	11:37 39	_	177.71E		.058	•106	.55
5/ 5/77 1		5:50		2.42N	154.47W		.041	•062		5/ 5/77	_	11:47 39		177.00E		.068	•112	.61
5/ 5/77 1		5:55		1.94N	154.47W			•036		,		11:52 39	-	176.64E		.083	•126	.66
37 37 11 1	• • •	5.35	J 7 1	* • 2414	* 7.4 \$ 2.2 H	-330	• • • • •	+030		3, 3711	- · - 1	11.00		2 . U . U TE	•		<b>4 L</b> L O	• 0 -

MAXIMUM VALUES: AMBIENT OZONE= .371 CABIN OZONE= .221 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .73 TOTAL OBS IN CABIN: 93
DATA SOURCE: GASP TAPE VL010, FILE 2

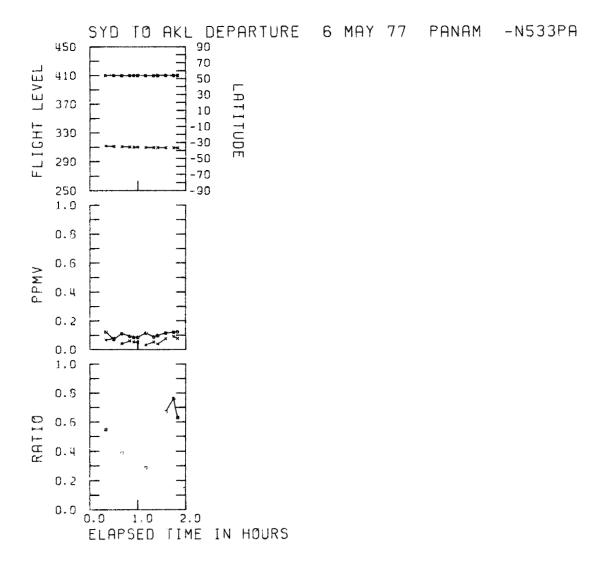
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB. HR:MN (C) CABIN AMB.

5/ 5/77 1/51 12:02 392 35.52S 175.91E -58. .065 .099



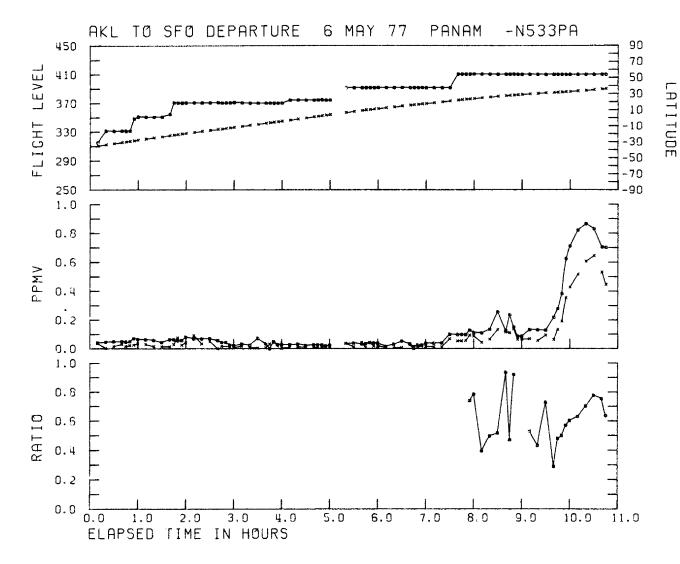
MAXIMUM VALUES: AMBIENT OZONE= .189 CABIN OZONE= .111 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .61 TOTAL OBS IN CABIN: 19
DATA SOURCE: GASP TAPE VL010. FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT			OZONE CABIN		RATIO	MO/DA/YR	GMT	ETIM F HR:MN	L LAT	LONG		OZONE (PPMV) CABIN AMB	
5/ 5/77 5/ 5/77 5/ 5/77 5/ 5/77 5/ 5/77 5/ 5/77	2028 2038 2048 2053	0:20 0:30 0:40 0:45	390 390 391 391	36.805 36.685 36.555 36.485	172.58E 171.10E 169.63E 168.19E 167.48E 166.77E	-59. -60. -62. -62.	.067 .065 .050 .059	•189 •109 •114 •088 •087	•61	5/ 5/77 5/ 5/77 5/ 5/77 5/ 5/77 5/ 5/77 5/ 5/77	2138 2148 2153 2158	1:30 39 1:40 39 1:45 39 1:50 39	1 35.65S 1 35.42S 1 35.30S 1 35.17S	162.52E 161.12E 159.74E 159.05E 158.35E 157.67E	-63. -64. -64. -64.	.058 .09( .059 .08 .047 .079	) 7 <del>9</del>
5/ 5/77 5/ 5/77 5/ 5/77 5/ 5/77	2108	0:55 1:00	391 391	36.32S 36.24S	166.06E 165.36E 163.94E	-63. -64.	.050	•078 •082		5/ 5/17 5/ 5/17 5/ 5/17 5/ 5/17 5/ 5/17	2208 2218 2228	2:00 39 2:10 39 2:20 39	1 34.915 1 34.645 1 34.365	157.00E 155.66E 154.34E 152.96E	-63. -63. -62.	.027 .068 .040 .07 .056 .08	3



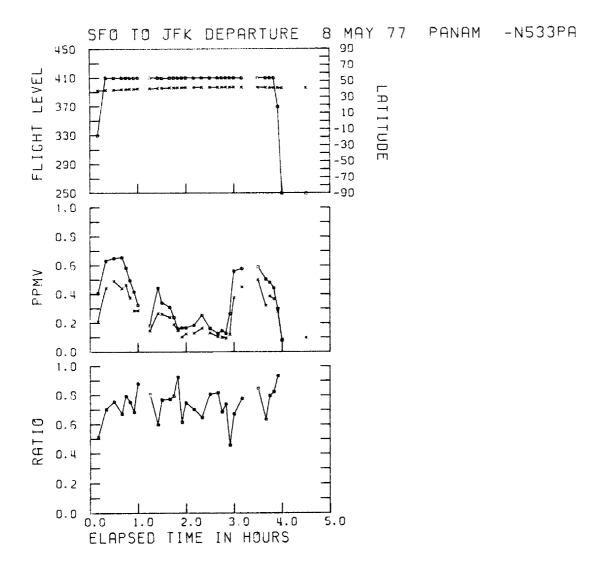
MAXIMUM VALUES: AMBIENT OZUNE= .124 CABIN OZONE= .092 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .76 TOTAL OBS IN CABIN: 12 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG TE	_	CABIN OZONE (			MO/DA/YR	GMT	ETIM FL LAT HŘÍMN			OZONE (		RATIO
5/ 6/77 5/ 6/77					155.39E -9					5/ 6/77 0 5/ 6/77 0		1:10 410 36.11S 1:20 410 36.33S	-				•29
5/ 6/77 5/ 6/77			-		158.91E =0				•39	5/ 6/77 0 5/ 6/77 0		1:25 410 36.435 1:35 410 36.615					.67
5/ 6/77 5/ 6/77	0602	0:55	410	35.725	161.59E	63.	.054	•086		5/ 6/77 0	0652	1:45 410 36.775 1:50 410 36.845	170.61E	-59.	.092	.121	.76



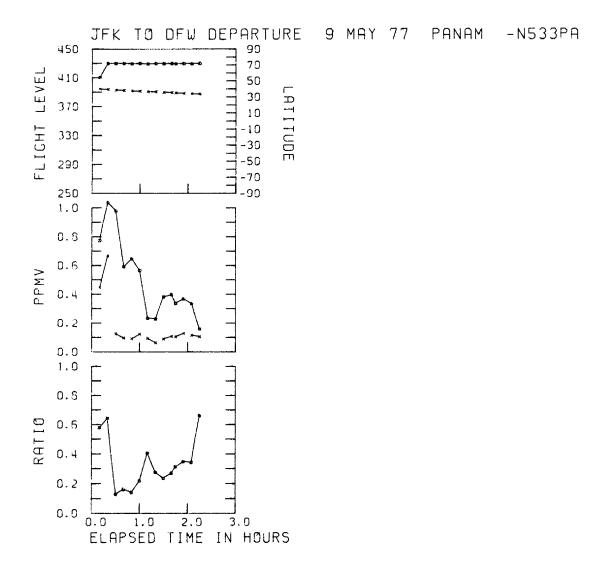
MAXIMUM VALUES: AMBIENT OZONE= .865 CABIN OZONE= .645 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .94 TOTAL OBS IN CABIN: 83 DATA SOURCE: GASP TAPE VL010, FILE 2

					<del>-</del>													
MO/DA/YR	GMT	ETIM	FL	LAT	LONG		OZONE (PPMV		MO/DA/YR	GMT	ETIM	FL	LAT	LONG		OZONE (		RATIO
		HR: MN				(C)	CABIN AME	•			HRIMN				(C)	CABIN	AMB.	
5/ 6/77	0937	0:10	316	35.01S	176.29E	-49.	.036 .04	1	5/ 6/77	1507	5:40	391	8.75N	162.27W	-55.	.044	.033	
5/ 6/77	0947			33.625	177.28E		.003 -04		5/ 6/71		5:45	391	9.39N	161.99W		.007	.034	
5/ 6/77				32.215	178.23E	-52.	.017 .04	9	5/ 6/77		5:50	391	10.03N	161.70W	-55.	.044	.042	
5/ 6/77				30.825	179.15E				5/ 6/77				10.56N	161.19W		.017	•040	
5/ 6/77	_			30.165	179.57E	-			5/ 6/77		-	-	11.09N	160.68W		.018	•038	
5/ 6/77				29.425	179.96w				5/ 6/77		TT 0		12.13N	159.67W		.007	•017	
5/ 6/77				28.725	179.53W				5/ 6/17				13.18N	158.64W		.007	•031	
5/ 6/77 5/ 6/77				28.015	179.10W				5/ 6/77 5/ 6/77			-	14.29N 15.32N	157.63W		•007	•052	
5/ 6/77				26.61S 25.27S	178.26W 177.48W		.030 .06		5/ 6/77		**		15.84N	156.47W 155.90W		.027	•034 •014	
5/ 6/77	_	_		23.815	176.65W		.014 .04		5/ 6/77				16.36N	155.33W		.015	•025	
5/ 6/77	_			22.425	175.89W		.013 .06		5/ 6/77		· ·		16.88N	154.75W		.017	•025	
5/ 6/77				21.735	175.51W		.030 .06		5/ 6/77				17.40N	154.17W		017	•038	
5/ 6/77				21.035	175.11W		.076 .05		5/ 6/77				18.45N	152.97W		.013	•038	
5/ 6/77	1155	1:55	371	20.365	174.65W	-54.	.025 .05	7	5/ 6/77	1647	1:20	391	19.51N	151.74W	-57.	.013	.040	
5/ 6/77	1127	2:00	371	19.715	174.21W	-53•	.041 .08	1	5/ 6/77	1657	7:30	391	20.56N	150.50W	-57.	.068	•099	
5/ 6/77				18.425	173.35W		•091 •06	9	5/ 6/77			_	21.60N	149.21W		.054	•097	
5/ 6/77			-	17.17S	172.52W	_	.034 .06		5/ 6/77			-	22.11N	148.57W		•053	• <b>09</b> 8	
5/ 6/77				15.975	171.75W		.051 .07		5/ 6/77				22.61N	147.92W		• 057	• 097	
5/ 6/77				14.785	170.99W		.000 .05		5/ 6/77				23.11N	147.26W		• 094	•127	• 74
5/ 6/77				14.185	170.64W				5/ 6/77 5/ 6/77				23.62N 24.56N	146.59W 145.31W		•087	•111	.78
5/ 6/77 P 5/ 6/77				13.545 12.915	170.40W		•04 •014 •02		5/ 6/17		. ~ .		25.50N	144.01W		.043	•109 •133	.39 .50
≥ 5/ 6/17 5/ 6/17				12.285	169.88W		.008 .02		5/ 6/77				26.42N	142.70W		.132	•256	.52
5/ 6/77				11.005	169.40W				5/ 6/77				27.29N	141.43w		.116	•124	.94
5/ 6/77	-	3:20		9.705	168.92W		.006 .02		5/ 6/77				27.68N	140.84W		.110	•235	41
5/ 6/77		3:30		8.415	168.44W		.005 .07		5/ 6/77		8:50	410	28.09N	140.22W	-65.		•150	.92
5/ 6/77		3:40		7.07S	167.94W		.007 .03	14	5/ 6/77	1822	8:55	410	28.50N	139.59W	-06.	.064	•087	
5/ 6/77	1312	3:45	370	6.405	167.69W	-49.	.032 0.00	0	5/ 6/77	1827	9:00	410	28.89N	138.98W	-66.	.065	•085	
5/ 6/77		3:50	370	5.745	167.45W		.050 .04		5/ 6/77				29.56N	137.67W		.069	•131	.53
5/ 6/77		3:55		5.095	167.21W		.019 .03		5/ 6/77				30.21N	136.35W		.056	•130	.43
5/ 6/77		4:00		4.445	166.97W		.004 .02		5/ 6/77				30.85N	135.01w		.093	-126	.73
5/ 6/77	_	4:10		3.135	166.50W		.008 .02		5/ 6/77	-			31.47N	133.63W		.063	•218	.29
5/ 6/77	-	4:20		1.785	166.01W	_	.012 .03		5/ 6/77				31.80N	132.91		.133	•278	.48
5/ 6/77	_	4:30		• 45S	165.54W		.009 .02		5/ 6/77				32.11N 32.43N	132.19W		.191	•383	.5U
5/ 6/77 5/ 6/77		4:40 4:45		.88N 1.55N	165.06W 164.82W		.009 .02		5/ 6/17 5/ 6/77				32.74N	131.45W 130.70W		•355 •429	•624 •712	.57 .60
5/ 6/77		4:50		2.21N	164.58W		.011 .02		5/ 6/77				33.46N	129.32W		.517	•821	.63
5/ 6/77	-	4:55		2.89N	164.37W		.017 .01		5/ 6/77				34.29N	127.98W		.607	•865	.70
5/ 6/77		5:00		3.54N	164.18W		.014 .02		5/ 6/17				35.11N	126.60W		.645	•830	78
5/ 6/77		5:20		5.20N	163.36w		.038 .03	_	5/ 6/77			10 0	35.90N	125.19w		.532	•705	.75
5/ 6/77	_	5:30			162.82W		.012 .03		5/ 6/77					124.47W		.447		-
3, 3, 11	1.01	3.30	Jyl	1 4 7 1 14	* 0 C * 0 C W	~35•		•	3, 0,11	-016	10.5		5516711	: I M		•	* 1 V Z	• 0 .



MAXIMUM VALUES: AMBIENT OZONE= .656 CABIN OZONE= .501 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .93 TOTAL OBS IN CABIN: 32 DATA SQURCE: GASP TAPE VLO10, FILE 2

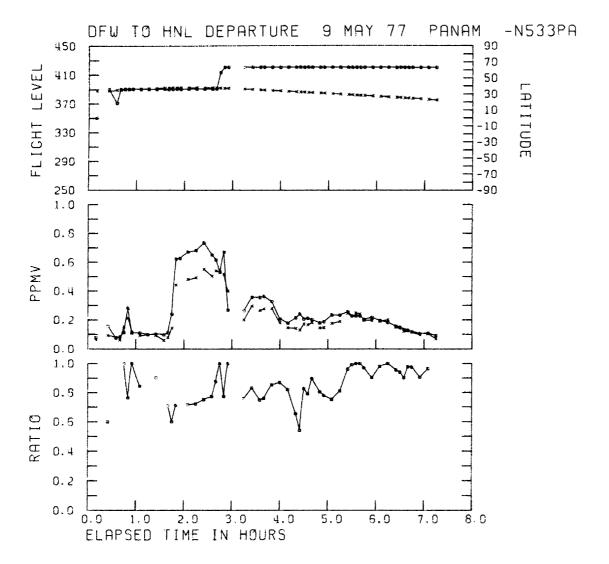
MO/DA/YR GM	T ETIN HR:MN	1 FL	LAT				(PPMV) AMB.	RATIO	MOZDAZYR	GMT	ETIM FL HRIMN	LAT	LONG	TEMP	OZONE (		RATIO
5/ 8/77 195 5/ 8/77 200 5/ 8/77 202 5/ 8/77 203 5/ 8/77 203 5/ 8/77 204 5/ 8/77 210 5/ 8/77 211 5/ 8/77 213 5/ 8/77 213 5/ 8/77 213 5/ 8/77 213	9 0:10 9 0:20 9 0:30 9 0:40 4 0:45 9 0:50 4 0:55 9 1:00 4 1:25 1 1:32 1 1:42 6 1:45	330 410 410 410 410 410 410 410 410 410 41		120.11W -4 118.40W -4 116.65W -9 114.84W -9 113.92W -9 113.02W -9 112.10W -9 111.19W -9 106.60W -9 105.25W -9 103.39W -9 102.49W -9 101.56W -9	49. 49. 52. 55. 59. 62. 66. 59. 63.	.208 .443 .491 .441 .464 .374 .286 .286	.406 .631 .650 .656 .584 .496 .418 .328 .443 .341 .309	.70 .76 .67 .79 .75 .68 .88 .81	5/ 8/77 5/ 8/77	2211 2221 2231 2236 2241 2246 2251 2301 2321 2331 2336 2341	2:12 41( 2:22 41( 2:32 41( 2:42 41( 2:47 41( 2:52 41( 3:52 41( 3:32 41( 3:47 41( 3:52 41( 3:52 41(	42.03N	97.84W 95.93W 94.07W 92.11W 91.14W 90.13W 89.15W 86.20W 82.19W 82.19W 79.15W 79.15W 77.15W	-666263656565575049.	.130 .164 .131 .104 .101 .095 .121 .376 .451 .501 .321 .385 .367	•185 •253 •162 •127 •147 •128 •264 •560	.65 .81 .82 .69 .74 .46 .67
5/ 8/77 214 5/ 8/77 215			41.63N 41.71N	100.63W 99.68W		.103 .125		•62 •75	5/ 8/77 5/ 9/77			41.25N 41.30N	76.14W 74.71W		-	.080	



JFK TO DEW (PAGE 1 OF 1) DEPARTURE: 9 MAY 77 AIRCRAFT: PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE=1.036 CABIN OZONE= .667 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .66 TOTAL OBS IN CABIN: 14 DATA SOURCE: GASP TAPE VL010, FILE 2

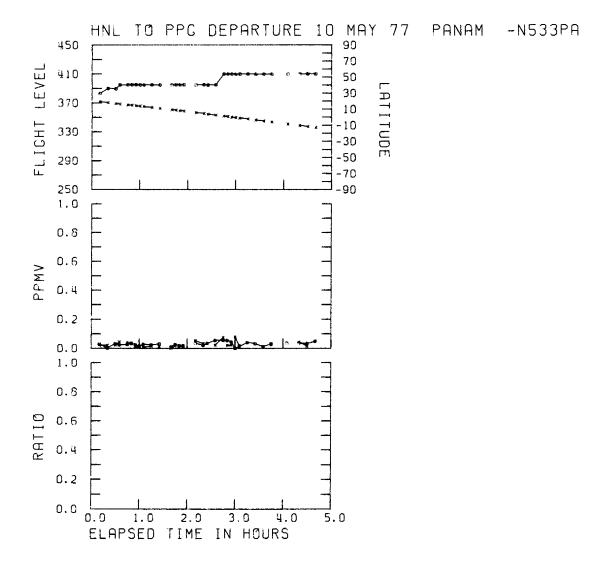
MOZDAZYR GM	T ETIM FL LAT HR:MN	LONG TEMP OZONE (C) CABIN	(PPMV) RATIO AMB•	MO/DA/YR GMT ETIM FL LAT HREMN	LONG TEMP OZONE(SPMV) RATIO (C) CABIN AMB.
5/ 9/77 175	5 0:10 411 39.98N	75.89W -47448	•774 •58	5/ 9/77 1905 1:20 430 36.36N	86.03W -56063 .229 .28
5/ 9/77 180	5 0:20 430 39.38N	77.40W -48667	1.030 .64	5/ 9/77 1915 1:30 430 35.91N	87.46W -61090 .382 .24
5/ 9/77 181	5 0:30 430 38.76N	78.89W -51126	•979 •13	5/ 9/77 1925   1:40 430 35.43N	88.91W -62107 .398 .27
5/ 9/77 162	5 0:40 430 38.15N	80.30W -51096	•592 •16	5/ 9/77 1930   1:45 430 35.18N	89.62w -65105 .337 .31
5/ 9/77 183	5 0:50 430 37.62N	81.72W -54092	•648 •14	5/ 9/77 1940 1:55 430 34.68N	91.03W -64128 .368 .35
5/ 9/77 184	5 1:00 430 37.21N	83.16W -57123	•565 •22	5/ 9/77 1950 2:05 430 34.15N	92.43w -66115 .336 .34
5/ 9/77 185	5 1:10 429 36.80N	84.60W -59095	•234  •41	5/ 9/77 2000 2:15 430 33.75N	93.80W -69105 .159 .66



MAXIMUM VALUES: AMBIENT OZONE= .734 CABIN OZONE= .551 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.49 TOTAL OBS IN CABIN: 54
DATA SOURCE: GASP TAPE VL010. FILE 2

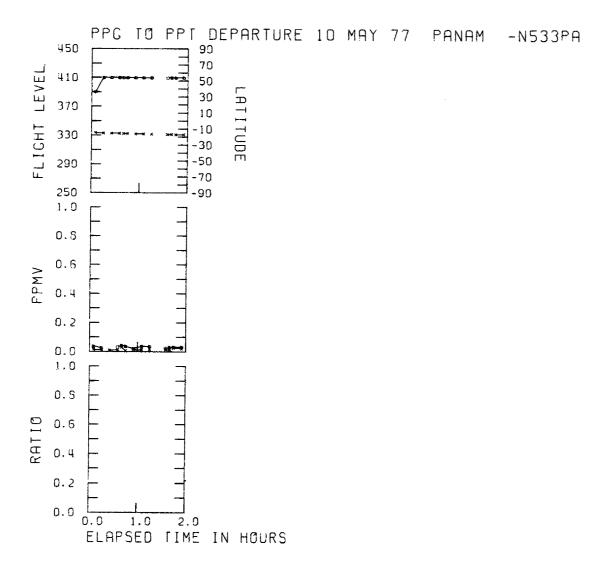
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

M	O/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PF		RATIO	MOZDAZYR	GMT	ETIM HŘÍMN	FL	LAT	LONG		OZONE (		RATIO
	5/ 9/77	2244	0:10	350	33.99N	98.62W	~52•	.065	079		5/10/77	0228	3:54	420	34.27N	133.70W	-64.	.279	.327	.85
	5/ 9/77	2259	0:25	390	34.37N	100.97W	-62.	.093 .	155	•60	5/10/77	0238	4:04	420	33.77N	135.04W	-67.	.180	.207	.87
	5/ 9/77	2309	0:35	371	35.37N	102.10W	<b>~58</b> •	.080 .	076		5/10/77	0248	4:14	420	33.27N	136.34W	-68.	.146	•178	.82
	5/ 9/77	2314	0:40	390	35.65N	102.88W	-63.	.062	.083		5/10/77	0258	4:24	420	32.76N	137.62W	-69.	.140	.214	.65
	5/ 9/77	2319	0:45	390	35.88N	103.69W	<b>~63</b> •	.154	113	1.36	5/10/77	0303	4:29	400	32.50N	138.25W	-70.	.130	·240	.54
	5/ 9/77	2324	0:50	390	36.10N	104.49W	-62.	.214	280	•76	5/10/77	0308	4:34	420	32.24N	138.87w	-70.	.171	.207	.83
	5/ 9/77	2329	0:55	391	36.31N	105.29W	-60.	.116 .	-111	1.05	5/10/77	0313			31.98N	139.48₩	-70.	.167	•211	.74
	5/ 9/77	-	1:05	390	36.71N	106.89W	-60.	.093	•110	•85	5/10/77	0318	4:44	420	31.72N	140.09w	-70.	.180	.201	.90
	5/ 9/77				37.02N	108.71W	-62•	.099	• 099		5/10/77	0328	4:54	420	31.19N	141.29W		.144	.179	.80
	5/10/77	-	-		37.43N	110.44W	-62•	.093	•103	•90	5/10/77		4:57	420	30.92N	141.89W	-70.	.146	•187	.78
	5/10/77		_		37.78N	112.08w	-		• 098		5/10/77				30.36N	143.09W		.176	.234	.75
	5/10/77				37.88N	112.88w			•111	•71	5/10/77				29.80N	144.27W		.189	•233	•81
	5/10/77		_		37.95N	113.68W			240	•60	5/10/77		_		29.22N	145.43W		.246	•25 <sub>6</sub>	.96
	5/10/77				37.97N	114.47W			•622	•71	5/10/77				26.93N	140.00W		.225	•227	-
	5/10/77				37.98N	115.31W			•627	_	5/10/77				28.65N	146.55W		.248	•558	
	5/10/77	-			37.96N	117.02W		-	•672		5/10/77				28.36N	147.10W		.240	•227	
	5/10/77	-			37.91N	118.73W		-	-682		5/10/77				28.08N	147.63W		.197	·203	
	5/10/77	-			37.84N	120.44W			•734	•75	5/10/77				27.52N	148.68W		.196	.217	.90
	5/10/77				37.74N	122.11W			•651	•77	5/10/77				26.97N	149.69W		•191	195	.98
	5/10/77				37.56N	122.91W			•617	•88	5/10/77		100 · -		26.40N	150.71W		105.	-	1.10
	5/10/77	-	_		37.36N	123.69W	-			1.00	5/10/77				25.82N	151.73W		.150	•157	-
_	5/10/77	-		_	37.15N	124.46W	•		•670		5/10/77				25.52N	152.23W		.141	•150	-
	5/10/77				36.94N	125.23W				1.49	5/10/77				25.23N	152.73W		.121	•134	.90
<b>.</b> .	5/10/77				36.09N	128.22W			263	•76 •83	5/10/77		1 0 0		24.94N 24.64N	153.22W 153.71W		.125	•128	.98
	5/10/77	-			35.63N	129.70W			• 356		5/10/77 5/10/77		~		24.05N	154.66W		.115	•118 •107	.97
	5/10/77				35.16N	131.14₩			• 354		5/10/77			-	23.30N	155.47W		.097	•107	.91
	5/10/77	0513	3+41	+20	34.92N	131.84W	-02	.276	• 363	•76	5/10/77				22.57N	155.47W		.070	•109	.96
											3/10/11	ひつつり	1 + 1 7	74.0	LC.DIN	1201548	-07	• 0 1 0	• 073	



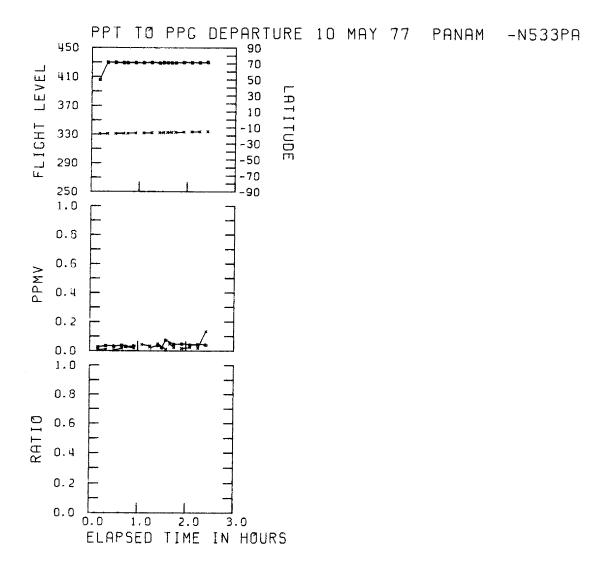
MAXIMUM VALUES: AMBIENT OZONE= .055 CABIN OZONE= .079 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)=\*\*\*\*\* TOTAL OBS IN CABIN: 27 DATA SOURCE: GASP TAPE VL010, FILE 2 AN "A" AFTER THE GMT BELOW DENDIES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)		(PPMV)	RATIO	MOZDAZYR	GMT	HK:MN	FL	LAT	LONG		OZONE (	PMV) AMB.	RATIO
5/10/77	0817	0:10	383	19.57N	158.36W	<b>-</b> 55•	.022	•029		5/10/77	1027A	2:20	395	4.95N	163.88w	-57.	.032	.020	
5/10/77	0827	0:20	390	18.50N	158.72W	-56.	.021	•002		5/10/77	1034	2:21	395	4.12N	163.96W	-56.		.034	
5/10/77	0837A	0:30	389	17.43N	159.08W	-56.	.023	•031		5/10/77	1044	2:37	395	2.85N	164.27W	-56.	.022	• 054	
5/10/77	0842	0:35	395	16.87N	159.26W	-57.	.044	•023		5/10/77	1054	2:41	410	1.60N	164.77W	-60.	.074	• 055	
5/10/77	0852	0:45	395	15.70N	159.50W	-56.	.041	•027		5/10/77	1059	2:52	410	.98N	165.01W	-60.	.021	• 054	
5/10/77	0857	0:50	395	15.18N	159.71W	-57.	.032	•034		5/10/77	1104	2:51	410	.35N	165.26W	-60.	.023	• 045	
5/10/77	0902	0:55	395	14.62N	159.94W	-56.	.010	• 025		5/10/77	1109	3:02	410	•27S	165.50W	-60.	.079	•001	
5/10/77	0907	1:00	395	14.09N	160.16W	-56.	.012	•014		5/10/77	1114	3:07	410	.905	165.72W	-60.	.019	•010	
5/10/77	0912	1:05	395	13.55N	160.38W	-56.	.009	.027		5/10/77	1124	3:17	410	2.135	166.16W	-59.		.039	
5/10/77	0922	1:15	395	12.44N	160.82W	-56.	.016	•023		5/10/17	1134	3:27	410	3.365	166.61W	-60.		•031	
5/10/77	0932	1:25	395	11.29N	161.27W	<b>-</b> 56•	.012	•031		5/10/77	1144	3:37	410	4.595	167.05W	-60.		•012	
5/10/77	0947	1:40	395	9.57N	161.93W	-56.	.002	•012		5/10/77	1154	3:47	410	5.845	167.51W	-60.	.033	•028	
5/10/77	0952	1:45	395	9.01N	162.14W	-55.	.017	•027		5/10/77	1214	4:07	410	8.345	168.42W	-60.		•036	
5/10/77	0957	1:50	395	8.40N	162.36W	-55.	.016	•018		5/10/77	1229	4:22	410	10.195	169.10W	-60.	.043	•036	
5/10/77	1002	1:55	395	7.82N	162.57W	-55.	.011	•019		5/10/77	1239	4:32	410	11.415	169.56W	-60.	.015	.032	
5/10/77	1017	2:10	395	6.17N	163.43W	<b>-</b> 55•	.055	•035		5/10/77	1249	4:42	410	12.63S	170.02W	-61.	.051	.047	



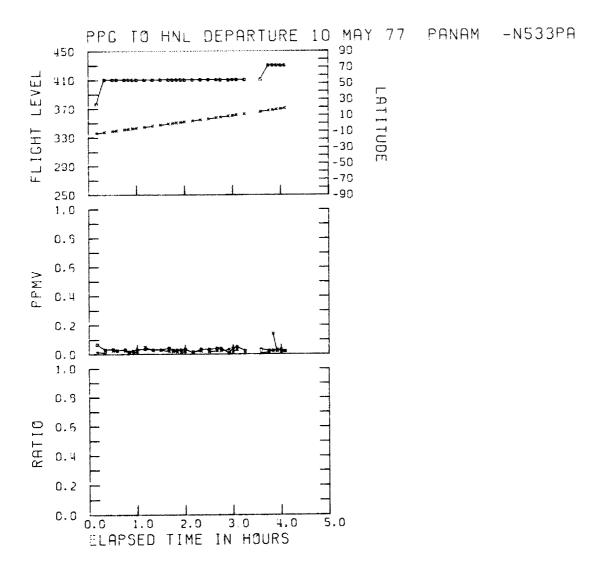
MAXIMUM VALUES: AMBIENT OZONE= .041 CABIN OZONE= .03] RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)≈ .00 TOTAL OBS IN CABIN: 13 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB•	MO/NA/YR GMT ETIM FL LAT HRÌMN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
5/10/77 1440 5/10/77 1450 5/10/77 1500 5/10/77 1510 5/10/77 1515 5/10/77 1520	0:15 410 15.06S 0:25 410 15.32S 0:35 410 15.56S 0:40 410 15.68S	168.27W -55014 .036 166.82W -61014 .025 165.38W -61011 163.93W -62014 .032 163.22W -61031 .041 162.47W -62006 .036	5/10/77 1540 1:05 410 16.255 5/10/77 1550 1:15 410 16.465 5/10/77 1610 1:35 410 16.835 5/10/77 1615 1:40 410 16.925 5/10/77 1620 1:45 410 17.015	161.02W -62014 .021 159.56W -02012 .036 158.09W -01014 .035 155.19W -63014 .025 154.49W -62014 .029 153.76W -62026 .032 152.35W -02020 .031



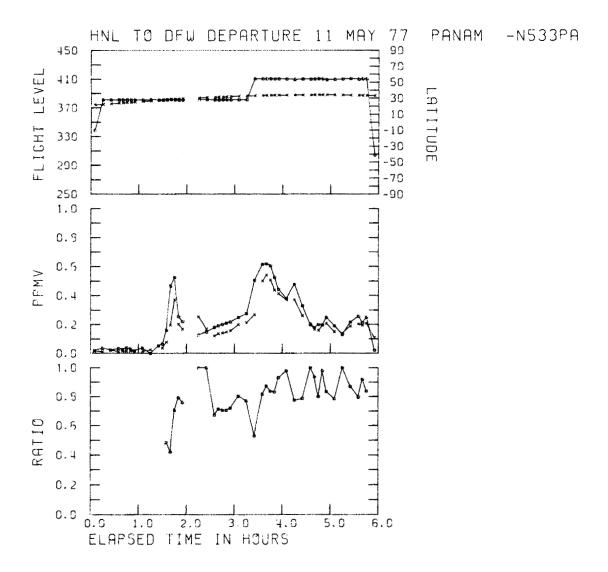
MAXIMUM VALUES: AMBIENT OZONE= .075 CABIN OZONE= .134 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 16
DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG			(PPMV) AMB.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN	 RATIO
5/10/77 5/10/77 5/10/77 5/10/77 5/10/77 5/10/77 5/10/77	1902 1912 1922 1927 1938 1948	0:20 0:30 0:40 0:45 0:56 1:06	430 430 429 429 429 429	17.13S 16.99S 16.83S 16.75S 16.55S 16.37S	151.57W 152.88W 154.17W 155.47W 156.12W 157.62W 158.89W 160.13W	-67. -67. -66. -67. -67.	.010 .006 .019 .029 .020	.035 .031 .038 .030		5/10/77 5/10/77 5/10/77 5/10/77 5/10/77 5/10/77 5/10/77 5/10/77 5/10/77	2013 2018 2023 2028 2038 2048 2048	1:31 1:36 1:46 1:56 2:06 2:16	429 429 429 429 430 430 429	15.905 15.795 15.695 15.585 15.375 15.155 14.925	161.39W 162.66W 162.66W 163.30W 163.93W 165.19W 166.44W 167.66W 168.92W	-67. -66. -67. -67. -66. -65.	.011 .049 .023 .018 .026	



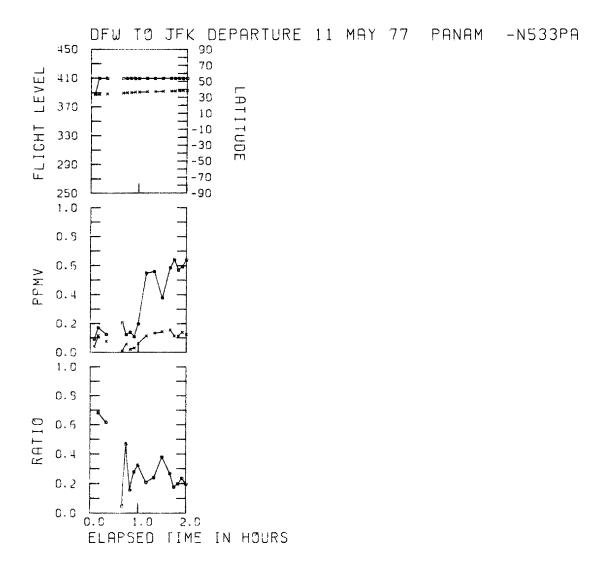
MAXIMUM VALUES: AMBIENT OZUNE= .067 CABIN OZONE= .143 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)=\*\*\*\*\* TOTAL OBS IN CABIN: 31 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TEMP (C)	OZONE(PPMV) CABIN AMB.		R GMT	ETIM FL HR:MN	LAT	LONG TEMP (C)	OZONE(OPMV) RATIO CABIN AMB.
5/10/77 2253 5/10/77 2303 5/10/77 2318 5/10/77 2318 5/10/77 2328 5/10/77 2333 5/10/77 2333 5/10/77 2343 5/10/77 2353 5/10/77 2353 5/11/77 0003 5/11/77 0003 5/11/77 0028 5/11/77 0033 5/11/77 0038	0:10 377 0:20 410 0:30 410 0:35 410 0:45 410 0:55 410 1:00 410 1:10 410 1:20 410 1:30 410 1:45 410 1:55 410	11.07S 9.78S 9.13S 7.84S 7.21S 6.59S 5.97S 4.72S 3.42S 2.13S .82S .17S	169.92W -51. 169.45W -60. 168.99W -60. 168.75W -60. 168.27W -60. 167.81W -60. 167.58W -60. 167.12W -60. 166.65W -60. 165.72W -60. 165.72W -60. 165.26W -60. 165.20W -60.	.009 .032 .026 .036 .024 .027 .025 .033 .017 .017 .012 .022 .019 .033 .051 .037 .026 .032 .028 .032 .021 .044 .020 .029	5/11/7 5/11/7 5/11/7 5/11/7 5/11/7 5/11/7 5/11/7 5/11/7 5/11/7 5/11/7 5/11/7 5/11/7	7 0043 7 0053 7 0103 7 0113 7 0123 7 0128 7 0138 7 0143 7 0148 7 0158 7 0218 7 0228 7 0233 7 0238 7 0243 7 0248	2:00 410 2:10 410 2:20 411 2:40 410 2:40 410 2:45 410 3:05 410 3:05 410 3:35 411 3:45 430 3:55 430 4:05 430	3.05N 4.32N 5.55N 6.87N 7.53N 8.87N 9.55N 10.24N 11.63N 14.43N 15.84N 16.53N 17.21N	164.79W +60. 164.32W -60. 163.86W -60. 163.30W -59. 162.83W -60. 162.59W -60. 162.12W -61. 161.62W -61. 161.12W -61. 160.08W -61. 159.53W -65. 159.26W -66. 158.98W -60.	.019 .010 .021 .035 .017 .034 .024 .041 .024 .040 .033 .007 .021 .042 .030 .051 .014 .026 .007 .034 .015 .024 .143 .025 .021 .031 .014 .031



MAXIMUM VALUES: AMBIENT OZONE= .619 CABIN OZONE= .541 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.98 TOTAL OBS IN CABIN: 46
DATA SOURCE: GASP TAPE VL010, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ËTIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO	MOZDAZYR	GMT	ETIM HR:MN	ĘL	LAT	LONG		OZONE (		RATIO
5/11/77 5/11/77	_			21.83N 22.36N	155.58W 153.88W			•020 •035		5/ <sub>11/77</sub> 5/ <sub>11/77</sub>	-	3:08	381	32.14N 32.53N	128.38W 126.83W			•218 •248	.72 .80
5/11/77 5/11/77		-		23.16N 23.95N	152.29W			•023 •034		5/ <u>)</u> 1/77 5/11/77				32.90N 33.20N	125.27W 123.65W			•275 •505	.77 .53
5/11/77	0628	0:40	381	24.33N	149.88W	-55.	.016	•027		5/11/77	0926	3:38	410	33.46N	121.97W	<b>-</b> 58.	.502	•615	.82
5/11/77 5/11/77				24.71N 25.08N	149.07W 148.25W		.016 .017	•038 •031		5/11/77 5/11/77		3:48	411	33.58N 33.70N	121.13W 120.28W	-59.	.508	•614 •606	.87 .84
5/11/77 5/11/77				25.45N 26.18N	147.42W 145.77W			•018 •037		5/ <sub>11/77</sub> 5/ <sub>11/</sub> 77	_			33.81N 33.91N	119.42W			•526 •443	.83 .93
5/11/77 5/11/77	0703	1:15	381	26.88N	144.10W	<del>-</del> 55•		0.000		5/11/77 5/11/77	0956	4:08	410	34.05N 34.12N	116.81W 115.02W	-58.	.371	•379	.98
5/11/77	0721A	1:33	186	27.57N 28.13N	142.39W 140.96W	-56.		•052 •065		5/11/77	1016	4:28	410	34.11N	113.27W	-64.	.260	•330	.78 .79
5/11/77 5/11/77		-	_	28.44N 28.73N	140.12W 139.33W			•161 •465		5/11/77 5/11/77				34.15N 34.20N	111.48W 110.61W			•198 •177	1.04 .94
5/11/77 5/11/77		-		29.01N 29.27N	138.57W 137.82W		-	•525 •255	_	5/11/77 5/11/77				34.24N 34.27N	109.74W 108.88W			•200 •197	.80 .98
5/11/77	0746	1:58	381	29.53N	137.09W	-60.	.168	.221	•76	5/11/77	1046	4:50	409	34.31N	108.01W	-65.	.208	.249	.84
5/11/77 5/11/77	-			30.45N 30.89N	134.27W 132.86W		-		1.98 1.12	5/11/77 5/11/77				34.17N 34.00N	106.33W 104.69W	_		•191 •131	
5/11/77 5/11/77				31.31N 31.52N	131.41W 130.66W			•180 •192		5/11/77 5/11/77				33.81N 33.59N	103.07W	-	.189 .204	•217 •256	.87 .80
5/11/77	0836	2:48	381	31.73N	129.91W	-62•	.142	.201	•71	5/11/77	1131	5:43	410	33.47N	100.57W	-62.	.195	•212	.92
로 5/11/77 당	0041	2.53	301	31.94N	129.15W	<b>-0%</b>	• į 48	•210	•70	5/11/77 5/11/77				33.35N 33.19N	99.75W 98.61W		.209 .109	•249 •022	.84

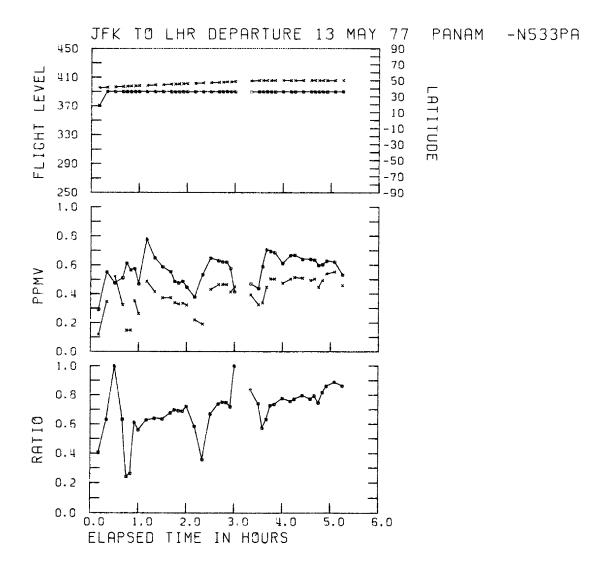


DFW TO JFK (PAGE 1 OF 1) DEPARTURE: 11 MAY 77 AIRCRAFT: PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE= .640 CABIN OZONE= .156 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .68 TOTAL OBS IN CABIN: 16
DATA SOURCE: GASP TAPE VL010, FILE 2

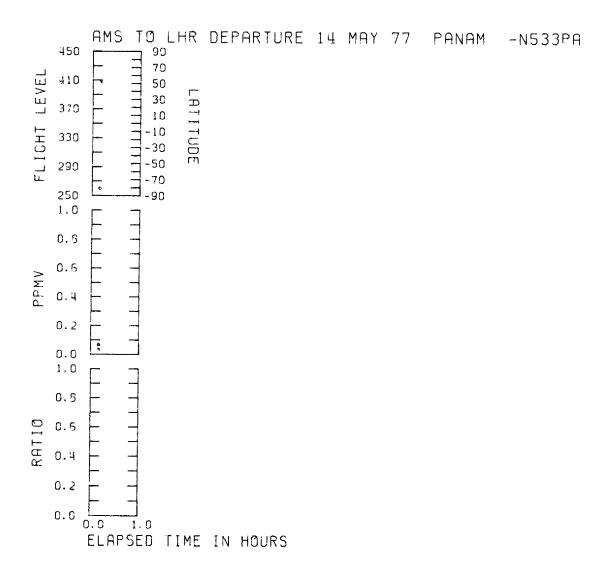
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN		LAT	LONG		CABIN OZONE			MO/DA/YR	GMT	ETIM HR:MN		LAT	LONG	TEMP	OZONE (		RATIO
5/11/77	1327A	0:08	388	33.42N	95.09W	-63•	.041	•093		5/11/77	1433	1:14	410	37.17N	85.03W	-58.	.114	•548	.21
5/11/77	1333	0:14	410	33.77N	94.30W	<del>-65•</del>	.116	•170	•68	5/11/77	1443	1:24	410	37.46N	83.27W	-58.	.134	•560	.24
5/11/77	1343	0:24	410	34.42N	92.80W	-67.	.077	•125	•62	5/11/77	1453	1:34	410	37.73N	81.47W	-55.	.143	.378	.38
5/11/77	1403	0:44	410	35.65N	89.81w	-66.	.010	-205	• 05	5/11/77	1503	1:44	410	37.90N	79.68W	-51.	.156	•586	.27
5/11/77	1408	0:49	410	35.95N	89.06W	-66•	.058	•124	•47	5/11/77	1508	1:49	410	38.05N	78.80W	-52.	.113	•640	.15
5/11/77	1413	0:54	410	36.24N	88.31W	-65.	.022	.140	.16	5/11/77	1513	1:54	410	38.28N	77.95W	-51.	.113	•570	.20
5/11/77	1418	0:59	410	36.53N	87.53W	-65.	.030	•108	•28	5/11/77	1518	1:59	410	38.51N	77.10w	-51.	.139	•593	.23
5/11/77	1423	1:04	410	36.82N	86.73W	-63•	.064	•198	•32	5/11/77	1523	2:04	410	38.73N	76.24W	-51.	.125	•63A	.20



MAXIMUM VALUES: AMBIENT OZONE= .777 CABIN OZONE= .552 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.09 TOTAL OBS IN CABIN: 41 DATA SOURCE: GASP TAPE VEOLO, FILE 2

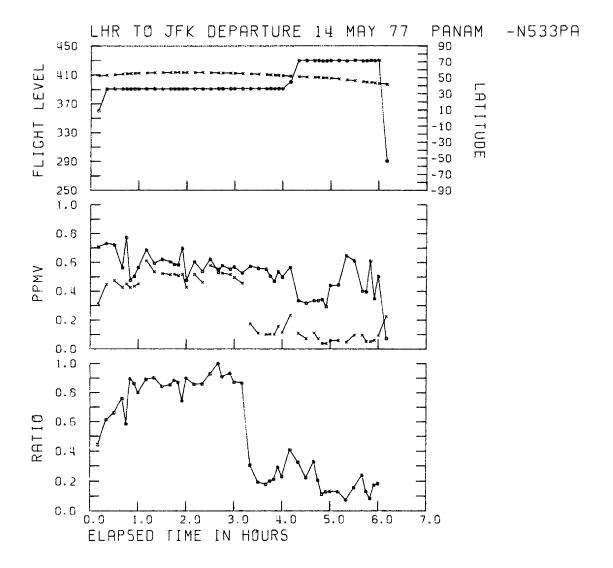
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPM (C) CABIN AM		MO/DA/YR GMT	ETIM FL LAT HR:MN		E(JPMV) RATIO N AMB.
5/13/77 2350 5/14/77 0000 5/14/77 0010 5/14/77 0025 5/14/77 0035 5/14/77 0035 5/14/77 0040 5/14/77 0100 5/14/77 0110 5/14/77 0125 5/14/77 0125 5/14/77 0135 5/14/77 0136 5/14/77 0136 5/14/77 0136 5/14/77 0136 5/14/77 0136 5/14/77 0136	0:10 370 40.94N 0:20 390 41.50N 0:30 390 42.04N 0:40 390 42.55N 0:45 390 42.55N 0:55 390 43.25N 1:00 390 43.25N 1:10 390 43.25N 1:20 390 43.89N 1:20 390 44.82N 1:40 390 45.24N 1:45 390 45.24N 1:45 390 45.88N 1:50 390 45.88N 1:50 390 45.88N 1:50 390 45.98N 2:10 390 46.48N 2:20 390 46.95N	71.25W -56119 .2 69.46W -49347 .5 67.65W -46520 .4 65.80W -45324 .6 64.88W -46149 .5 63.94W -45149 .5 62.04W -44263 .4 60.10W -46488 .7 58.17W -47416 .6 56.20W -50373 .5 54.21W -50374 .5 52.20W -52330 .4 52.20W -52330 .4 51.15W -53336 .4 47.96W -56221 .3 45.82W -55191 .5	92	5/14/77 0225 5/14/77 0230 5/14/77 0235 5/14/77 0240 5/14/77 0300 5/14/77 0315 5/14/77 0325 5/14/77 0325 5/14/77 0325 5/14/77 0340 5/14/77 0350 5/14/77 0405 5/14/77 0405 5/14/77 0425 5/14/77 0425 5/14/77 0425 5/14/77 0430	2:45 390 47.96N 2:50 390 48.21N 2:55 390 48.47N 3:00 390 48.73N 3:20 390 49.63N 3:30 390 50.02N 3:35 390 50.02N 3:40 390 50.15N 3:50 390 50.15N 4:00 390 50.15N 4:10 390 50.12N 4:15 390 50.22N 4:25 390 50.22N 4:45 390 50.26N 4:40 390 50.25N 4:50 390 50.25N 4:50 390 50.23N 4:50 390 50.23N	40.31W -56. 46 39.20W -56. 46 38.09W -54. 41 36.98W -54. 45 32.47W -53. 32 28.92W -50. 33 27.69W -49. 44 26.47W -49. 50 25.24W -48. 50 22.79W -49. 47 20.34W -50. 51 16.71W -50. 51 14.30W -50. 49 11.89W -52. 44 10.69W -50. 49	7
5/14/77 0210 5/14/77 0220	2:30 390 47.38N 2:40 390 47.77N		.48 .67 .30 .74	5/14/77 0435 5/14/77 0445 5/14/77 0455	5:05 390 50.19N 5:15 390 50.40N	9.48W -5054 7.14W -5055 4.87W -4845	2 .621 .89



MAXIMUM VALUES: AMBIENT OZONE= .071 CABIN OZONE= .036 RATIO (LIMITED TO AMB. OZONE ABOVE (0.1) #\*\*\*\*\* TOTAL OBS IN CABIN: 1 DATA SOURCE: GASP TAPE VLUIO, FILE 2

MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MOZNAZYR GMT LÎIM FL LAT LONG TEMP OZONE(∞PMV) RATIO HR:MN (C) CABIN AMB. HR:MN (C) CABIN AMB.

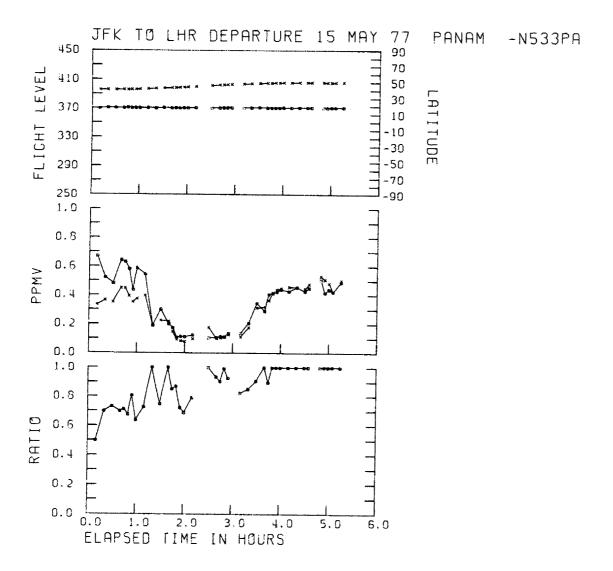
5/14/77 1014 0:10 260 51.79N 2.47E -43. .036 .071



## LHR TO JFK (PAGE 1 OF 1) DEPARTURE: 14 MAY 77 AIRCRAFT: PANAM -N533PA

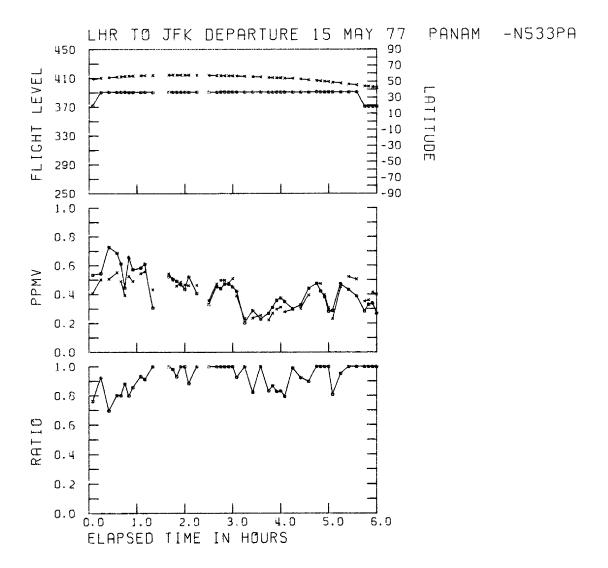
MAXIMUM VALUES: AMBIENT OZONE= .772 CABIN OZONE= .612 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.05 TOTAL OBS IN CABIN: 48 DATA SOURCE: GASP TAPE VEOLO, FILE 2

М	O/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN OZONE(		OITAR	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		OLTAR
	5/14/77	1305	0:10	360	52.93N	2.33W	-47.	.314	•707	• 4 4	5/14/77	1615	3:20	391	55.19N	44.75W	-50.	.175	•573	.318
	5/14/77	1315	0:20	391	53.76N	4.00W	-47.	.448	•731	•61	5/14/77	1625	3:30	391	54.75N	46.89W	-51.	.109	•560	.19B
	5/14/77	1325	0:30	391	54.48N	5.83w	-47.	•476	•721	•66	5/14/77	1635	3:40	391	54.27N	40.97W	-51.	.100	•554	188
	5/14/77	1335	0:40	391	55.20N	7.72W	-47.	.427	•563	•76	5/14/77	1640	3:45	391	54.02N	49.99W	-52.	.102	•506	.20B
	5/14/77	1340	0:45	391	55.55N	8.69w	-47.	.451	•772	•58	5/14/77	1645	3:50	391	53.68N	50.93W	-54.	.100	.469	.21B
	5/14/77	-	0:50	391	55.89N	9.68W	-48.	.426	,477	•89	5/14/77	1650	3:55	391	53.33N	51.84W	-51.	.156	•536	.298
	5/14/77	1350	0:55	391	56.11N	10.77W	-48.	•435	•504	•86	5/14/77	1655	4:00	391	52.98N	52.71W	-52.	.115	498	238
	5/14/77	1355	1:00	391	56.26N	11.90W	-48.	.452	•565	.80	5/14/77	1705	4:10	40 U	52.24N	54.46W	-49.	.232	•566	.41
	5/14/77	1405	1:10	391	56.53N	14.21W	-47.	.612	•687	•89	5/14/77	1715	4:20	430	51.51N	56.21W	-50.	.109	•334	.33B
	5/14/77	1415	1:50	391	56.76N	16.55W	-48.	.536	•594	•90	5/14/77	1725	4:30	430	51.14N	58.30w	-41.	.071	•317	.228
	5/14/77	1425	1:30	391	56.94N	18.94W	-48.	.524	•622	-84	5/14/77	1735	4:40	430	50.75N	60.35W	-48.	.111	•335	.33B
	5/14/77	1435	1:40	391	57.05N	21.34W	-48.	•516	•605	•85	5/14/77	1740	4:45	430	50.53N	61.37W	-48.	.069	• 335	.21B
	5/14/77	1440	1:45	391	57.08N	22.54W	-48.	.519	•587	•88	5/14/77	1745	4:50	429	50.31N	62.40W	-48.	.039	.342	.118
	5/14/77	1445	1:50	391	57.10N	23.76W	-49.	.508	•583	•87	5/14/77	1750	4:55	429	50.07N	6J.43w	-48.	.038	.293	. 1 JB
	5/14/77	1450	1:55	391	57.10N	24.98W	-49.	.519	•699	•74	5/14/77	1755	5:00	430	49.71N	64.31W	-48.	.058	•439	.138
	5/14/77		2:00	391	57.1UN	26.20W	-49.	.427	•476	•90	5/14/77	1805	5:10	430	48.61N	65.55W	-48.	.058	.444	.13B
	5/14/77	1505	2:10	391	57.05N	28.62W	-50.	.518	•604	•86	5/14/77	1815	5:20	429	47.48N	66.76W	-47.	.048	•645	.07B
	5/14/77	1515	2:20	391	56.94N	31.02W	-51.	.463	•539	-86	5/14/77	1825	5:30	430	46.36N	67.90W	-48.	.096	•612	.16B
	5/14/77	1525	2:30	391	56.77N	33.40W	-49.	.579	•623	•93	5/14/77	1835	5:40	429	45.20N	69.01W	-49.	.096	• 401	.24B
	5/14/77	1535	2:40	391	56.54N	35.75W	-50.	•556	•532	1.05	5/14/77	1840	5:45	429	44.61N	69.56W	-48.	.052	• 395	.138
	5/14/77	1540	2:45	391	56.41N	36.91W	-51.	.527	•579	•91	5/14/77	1845	5:50	430	44.02N	70.08W	-49.	.051	.610	.088
_	5/14/77	1550	2:55	391	56.12N	39.21W	-49.	.517	•554	•93	5/14/77	1850	5:55	430	43.43N	70.61w	-49.	.061	.349	.17B
	5/14/77	1555	3:00	391	55.96N	40.33W	-50.	.496	•569	.87	5/14/77	1855	6:00	430	42.83N	71.06W	-50.	.093	•503	.188
<del>ئ</del>	5/14/77	1605	3:10	391	55.60N	42.55W	-51.	•450	•527	•87	5/14/77	1905	6:10	290	41.67N	71.91W	-42•	•225	.072	-



MAXIMUM VALUES: AMBIENT OZONE= .670 CABIN OZONE= .532 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.67 TOTAL OBS IN CABIN: 39 DATA SOURCE: GASP TAPE VL010, FILE 2

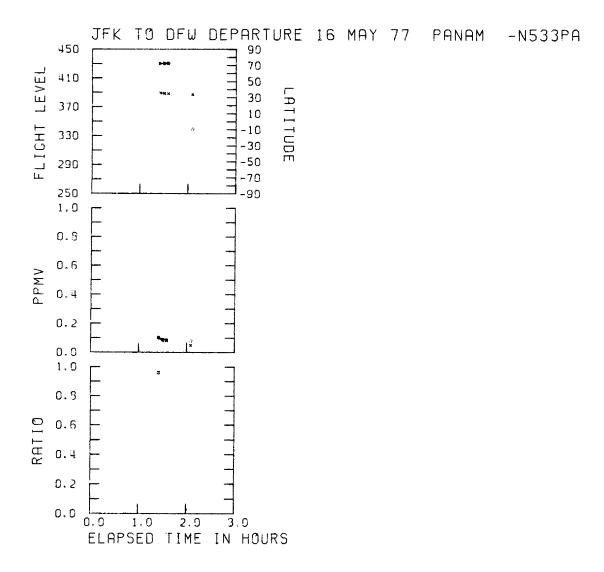
5/15/77 0026 0:13 370 41.08N 70.71W -48334 .670 .50 5/15/77 0301 2:48 371 47.32N 38.68W -59104 .115 .90 5/15/77 0036 0:23 371 41.28N 68.82W -66364 .522 .70 5/15/77 0306 2:53 371 47.58N 3/.55W -60111 .112 .99 5/15/77 0056 0:43 370 41.27N 66.85W -48352 .482 .73 5/15/77 0311 2:58 371 47.82N 36.47W -60126 .136 .82 5/15/77 0101 0:48 371 41.32N 66.85W -48449 .631 .71 5/15/77 0326 3:13 371 48.88N 30.91W -59175 .206 .85 5/15/77 0101 0:48 371 41.32N 63.90W -47449 .631 .71 5/15/77 0336 3:23 371 48.88N 30.91W -59175 .206 .85 5/15/77 0110 0:53 370 41.51N 62.89W -48352 .437 .81 5/15/77 0346 3:33 371 49.19N 28.61W -57313 .345 .91 5/15/77 0116 1:03 370 41.69N 61.89W -48352 .437 .81 5/15/77 0346 3:33 371 49.97N 26.33W -52321 .290 1:11 5/15/77 016 1:13 370 42.29N 58.81W -49396 .545 .73 5/15/77 0406 3:53 371 49.9N 25.20W -51364 .406 .90 5/15/77 0156 1:13 370 42.76N 56.77W -53190 .189 1:01 5/15/77 0416 3:53 371 49.8N 22.9W -50440 .424 1:01 5/15/77 0156 1:43 370 43.59N 52.51W -58224 .300 .75 5/15/77 0426 4:13 371 50.02N 19.54W -49458 .427 1.07 5/15/77 0206 1:53 370 43.94N 50.39W -59093 .107 .87 5/15/77 0466 4:23 371 50.15N 14.97W -47446 .427 1.04 5/15/77 0216 1:58 370 44.25N 49.31W -60083 .115 .72 5/15/77 0466 4:23 371 50.15N 14.97W -47446 .427 1.04 5/15/77 0216 1:58 370 44.25N 49.31W -60083 .115 .72 5/15/77 0466 4:33 371 50.15N 14.97W -47446 .427 1.04 5/15/77 0216 2:03 370 44.25N 49.31W -60083 .115 .72 5/15/77 0466 4:33 371 50.15N 14.97W -47446 .427 1.04 5/15/77 0216 2:03 370 44.25N 49.31W -60083 .115 .72 5/15/77 0516 4:33 371 50.15N 14.97W -47446 .427 1.04 5/15/77 0246 2:33 370 44.25N 49.31W -60083 .115 .72 5/15/77 0516 5:03 371 50.05N 9.22W -45509 .416 1.22 5/15/77 0246 2:33 370 44.28N 42.03W -58107 .106 1.67 5/15/77 0526 2:33 370 44.28N 42.05N 82.00 .107 .93 5/15/77 0516 5:03 371 50.05N 6.96W -46423 .439 1.10 5/15/77 0256 2:33 370 40.48N 42.03W -58107 .106 1.07 .93 5/15/77 0516 5:03 371 50.05N 6.96W -46423 .439 1.10	MO/DA/YR GMT	ETIM FL LAT HR:MN		NE(PPMV) RATIO BIN AMB•	- 1	TIM FL LAT		OZONE(PPMV) RATIO CABIN AMB.
5/15/77 0531 5:18 370 50.26N 4.74W -48503 .490 1.03	5/15/77 0036 5/15/77 0046 5/15/77 0056 5/15/77 0101 5/15/77 0116 5/15/77 0116 5/15/77 0126 5/15/77 0136 5/15/77 0146 5/15/77 0206 5/15/77 0206 5/15/77 0211 5/15/77 0216 5/15/77 0216 5/15/77 0216 5/15/77 0216 5/15/77 0216 5/15/77 0226 5/15/77 0226	0:23 371 41.28N 0:33 370 41.27N 0:43 370 41.24N 0:48 371 41.32N 0:53 370 41.69N 1:03 370 41.69N 1:13 370 42.29N 1:23 370 42.76N 1:33 371 43.19N 1:43 370 43.59N 1:48 370 43.59N 1:58 370 44.25N 2:03 370 44.60N 2:13 371 45.27N 2:33 370 46.48N	68.82W -46. 3 66.85W -48. 3 64.84W -47. 4 63.90W -47. 4 62.89W -46. 3 60.85W -48. 3 58.81W -49. 3 56.77W -53. 1 54.69W -54. 3 52.51W -58. 4 51.43W -58. 1 50.39W -59. 4 48.27W -59. 4 48.27W -59. 4 42.03W -58. 1	364 .522 .70 352 .482 .73 448 .642 .70 449 .631 .71 393 .582 .68 352 .437 .81 374 .587 .64 396 .545 .73 190 .189 1.01 224 .300 .75 217 .200 1.09 148 .174 .85 107 .87 1083 .115 .72 1077 .112 .69 1098 .124 .79 177 .106 1.67	5/15/77 0306 2 5/15/77 0311 2 5/15/77 0326 3 5/15/77 0336 3 5/15/77 0346 3 5/15/77 0401 3 5/15/77 0401 3 5/15/77 0401 3 5/15/77 0416 4 5/15/77 0426 4 5/15/77 0436 4 5/15/77 0436 4 5/15/77 0436 4 5/15/77 0451 4 5/15/77 0501 5 5/15/77 0516 5	55 371 47.58N 56 371 47.82N 13 371 48.48N 23 371 48.86N 23 371 49.19N 143 371 49.47N 148 370 49.59N 153 371 49.88N 153 371 49.88N 153 371 50.02N 153 371 50.11N 153 371 50.11N 153 371 50.15N 156 370 50.06N 158 370 50.00N	37.56W -60. 36.47W -60. 33.15W -60. 30.91W -59. 28.61W -57. 26.35W -52. 25.20W -51. 24.10W -51. 22.96W -50. 21.81W -50. 19.54W -49. 17.25W -49. 14.97W -46. 10.39W -46. 9.22W -45. 8.11W -46.	.111 .112 .99 .126 .136 .93 .112 .136 .82 .175 .206 .85 .313 .345 .91 .321 .290 1.11 .364 .406 .90 .419 .414 1.01 .440 .424 1.04 .448 .440 1.02 .458 .427 1.07 .457 .455 1.00 .446 .427 1.07 .457 .450 1.06 .532 .506 1.05 .509 .416 1.22 .483 .439 1.10



## LHR TO JEK (PAGE 1 OF 1) DEPARTURE: 15 MAY 77 AIRCRAFT: PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE= .728 CABIN OZONE= .558 RATIO (LIMITED TO AMB. OZONE ABOVE U.1)= 1.49 TOTAL OBS IN CABIN: 48 DATA SOURCE: GASP TAPE VL010, FILE 2

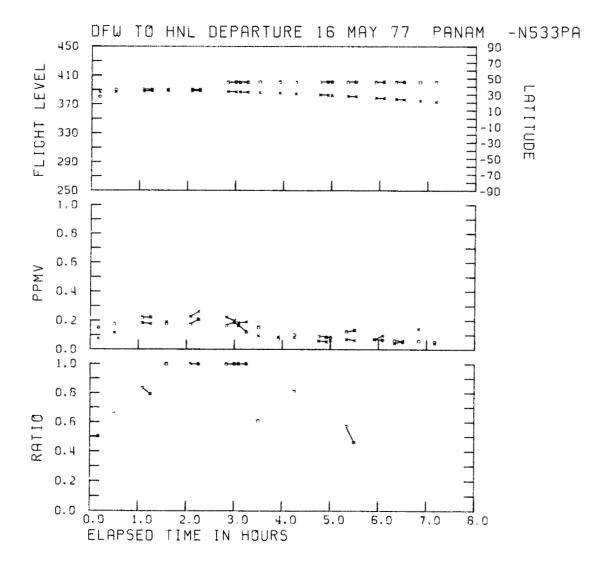
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	CARIN OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO	
	5/15/77	1231	0:05	372	53.19N	1.79W	-49.	.408	•535	•76	5/15/77	1531	3:05	391	56.75N	41.56W	-50.	.391	•422	.93	
	5/15/17	1441	0:15	390	54.38N	2.90W	-48.	.502	•544	•92	5/15/77	1541	3:15	391	56.37N	43.73W	-49.	.230	.203	1.13	
	5/15/77	1251	0:25	391	55.16N	4.75W	-48.	.507	•728	•70	5/15/77	1551	3:25	391	55.94N	45.89W	-49.	.237	·288	-82	
	5/15/77	1301	0:35	391	55.86N	6.77W	-48.	.551	•687	•80	5/15/77	1601	3:35	391	55.48N	48.00W	-46.	.255	.229	1.11	
	5/15/77	1306	0:40	391	56.23N	7.77W	-47.	.490	•612	.80	5/15/77	1611	3:45	391	54.97N	50.13w	-48.	.224	.269	•83	
	5/15/77	1311	0:45	391	56.59N	8.79W	-47.	.393	•446	•88	5/15/77	1616	3:50	391	54.76N	51.23w	-46.	.270	•311	.87	
	5/15/77	1316	0:50	391	56.94N	9.83W	-47.	.525	•656	.80	5/15/77	1621	3:55	391	54.53N	54.33W	-46.	.297	•358	.83	
	5/15/77	1321	0:55	391	57.14N	11.01w	-47.	.491	•573	•86	5/15/77	1626	4:00	391	54.29N	53.42W	-46.	.312	.375	.83	
	5/15/77	1331	1:05	391	57.44N	13.43W	-50.	.545	•584	د9.	5/15/77	1631	4:05	391	54.04N	54.52W	-45.	.279	• 351	.79	
	5/15/77	1336	1:10	391	57.57N	14.64W	-51.	.558	•611	•91	5/15/77	1641	4:15	391	53.73N	56.81W	-44.	.297	•300	99	
	5/15/77	1346	1:20	390	57.79N	17.08W	-53.	.433	•308	1.41	5/15/77	1651	4:25	391	52.90N	58.62W	-45.	.302	.327	.92	
	5/15/77	1406	1:40	391	58.06N	21.95W	-53.	.543	•523	1.04	5/15/77	1701	4:35	391	51.97N	60.31W	-45.	.395	• 440	.90	
	5/15/77	1411	1:45	391	58.08N	23.16W	-52.	.499	•508	•98	5/15/77	1711	4:45	391	50.99N	61.93W	-46.	.475	•475	1.00	
	5/15/77	1416	1:50	391	58.10N	24.38W	-52.	.458	•492	• 93	5/15/77	1716	4:50	391	50.46N	62.66W	-46.	.473	•422	1.14	
	5/15/77	1421	1:55	391	58.10N	25.59W	-52.	.485	•467	1.04	5/15/77	1721	4:55	391	49.92N	63.38W	-48.	.397	-382	1.04	
	5/15/77	1426	2:00	391	58.08N	26.78W	-52.	.466	• 435	1.07	5/15/77	1725	ອີເບບ	391	49.37N	64.08W	-47.	.306	.283	1.08	
	5/15/77	1431	2:05	391	58.06N	27.97W	-54.	.46l	•521	•88	5/15/77	1731	5:05	391	48.81N	64.78W	-47.	.232	.287	.81	
	5/15/77	1441	2:15	391	57.98N	30.34W	-55.	.463	•407	1.14	5/15/77	1741	5:15	391	47.69N	66.12W	-48.	• 449	•472	. 95	
	5/15/77	1456	2:30	391	57.72N	33.78W	-56.	.357	•331	1.08	5/15/77	1751	5:25	391	46.55N	07.41W	-51.	.521	•431	1.21	
	5/15/77	1506	2:40	391	57.49N	36.05W	-55.	.472	• 454	1.04	5/15/77	1801	5:35	391	45.39N	68.65W	-53.	•504	•388	1.30	
	5/15/77	1511	2:45	391	57.37N	37.17W	-55.	.498	• 440	1.13	5/15/77	1811	5:45	371	44.19N	64.83W	-55·	.352	•283	1.24	
	5/15/77	1516	2:50	391	57.23N	38.28W	-54.	.497	•472	1.05	5/15/77	1816	5:50	371	43.56N	70.37W	-55.	.361	•330	1.09	
<u>.</u>	5/15/77	1521	2:55	391	57.09N	39.38W	-53•	.481	·471	1.02	5/15/77	1821	5:55	371	42.92N	70.90W	-56.	.414	.334	1.22	
47	5/15/77	1526	3:00	391	56.93N	40.47W	-52•	.509	• 452	1.13	5/15/77	1826	6:00	371	42.28N	71.42W	-57.	•399	•26B	1.49	



JFK TO DFW (PAGE 1 OF 1) DEPARTURE: 16 MAY 77 AIRCRAFT: PANAM -N533	JFK TO DFW	(PAGE 1 OF 1)	DEPARTURE: 16 MAY 77	AIRCRAFT: PANAM	-N533PA
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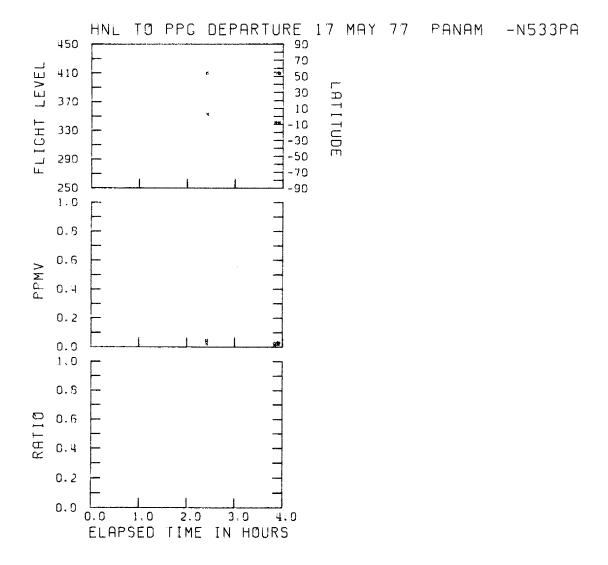
MAXIMUM VALUES: AMBIENT OZONE= .104 CABIN OZONE= .100 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .96 TOTAL OBS IN CABIN: 4
DATA SQURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	 ONE(PPMV) RATIO I BIN AMB•	MOZDAZYR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(⊅PMV) RATIO (C) CABIN AMB.
	1:25 430 35.22N 1:30 430 34.96N	 	5/16/77 1654 1:35 431 34.74N 5/16/77 1724 2:05 339 33.61N	



MAXIMUM VALUES: AMBIENT OZONE≈ .223 CABIN OZONE= .261 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.57 TOTAL OBS IN CABIN: 25 DATA SOURCE: GASP TAPE VL010, FILE 2

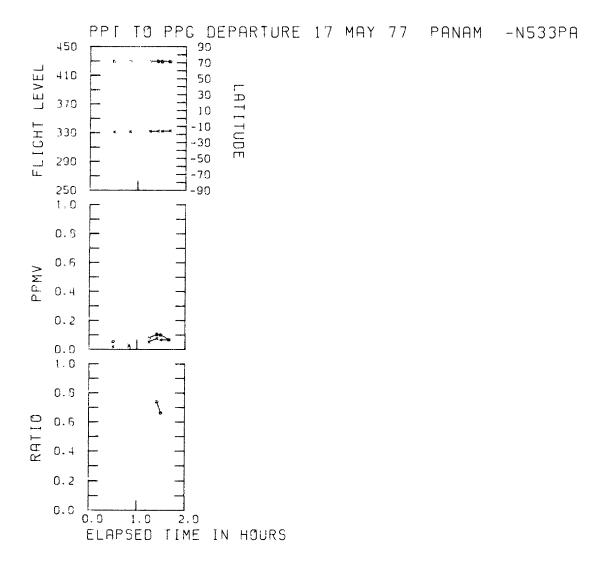
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PMV) AMB.	RATIO
5/16/77 5/16/77 5/16/77 5/16/77 5/16/77	2004 2039 2050	0:30 1:05 1:16	391 391 390	33.38N 33.88N 34.62N 34.81N 35.05N		-59. -57. -56.	.117 .185 .177	•178 •221 •223	•66	5/16/77 5/16/77 5/17/77 5/17/77 5/17/77	2350 0020 0030	4:16 4 4:46 4	401 401 401	31.63N 30.86N 29.59N 29.12N 28.88N	132.94W 136.91W 138.25W	-64. -64.	.083 .059 .053	.074 .102 .092 .086 .083	.81
5/16/77 5/16/77					115.52W 116.89W				1.31 1.25	5/17/77 5/17/77				-	141.67W			•124 •134	
5/16/77 5/16/77 5/16/77 5/16/77 5/16/77	2225 2235 2240 2250	2:51 3:01 3:06 3:16	401 401 401 401	33.85N 33.42N 33.28N	121.59W 122.90W 123.56W 124.94W	-62 • -62 • -64 • -65 •	.224 .199 .185 .191	•167 •188 •166 •122	1.34 1.06 1.11 1.57	5/17/77 5/17/77 5/17/77 5/17/77 5/17/77 5/17/77	0130 0140 0155 0205 0225	5:50 6:06 6:21 6:31 6:51	401 401 401 401 401	25.84N	146.56W 147.94W 149.93W 151.23W	-63. -62. -63. -62.	.070 .095 .044 .060	•070 •066 •064 •054 •059	• • •



MAXIMUM VALUES: AMBIENT OZONE= .047 CABIN OZONE= .023 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)=\*\*\*\* TOTAL OBS IN CABIN: 3

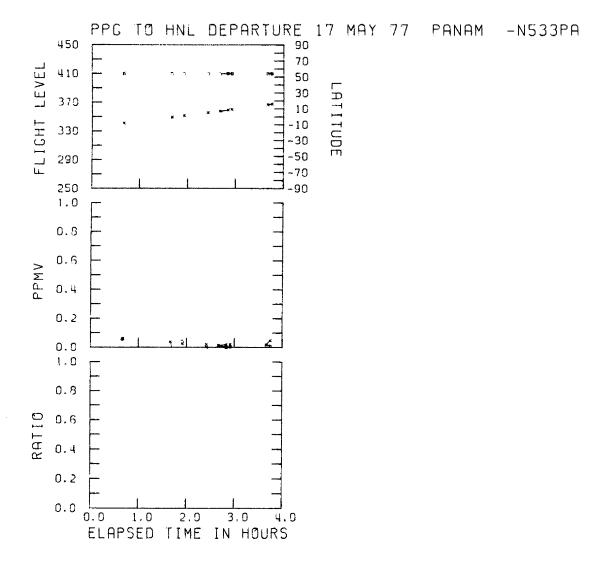
MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE(⊕PMV) RATIO HR:MN (C) CABIN AMB. HR:MN (C) CABIN AMB.

5/17/77 0731 2:25 410 2.62N 164.49W -60. .023 .047 5/17/77 0856 3:50 410 7.21S 168.05W -60. .015 .028 5/17/77 0901 3:55 410 7.77S 168.26W -60. .019 .03n



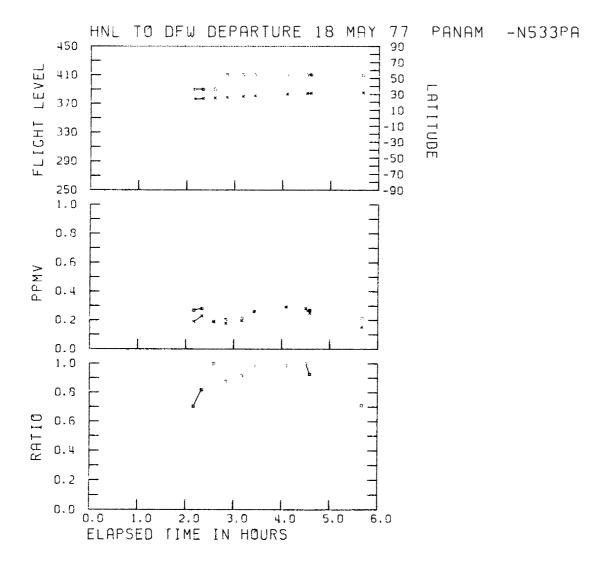
MAXIMUM VALUES: AMBIENT OZONE= .104 CABIN OZONE= .077 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .74 TOTAL OBS IN CABIN: 6
DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR	GMT	ETIM FL LAT HR:MN		P OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR GMY ETIM FL LAT HR:MN	LONG TEMP OZONE(SPMV) RATIO
5/17/77	1919	0:33 430 16.83S 0:53 430 16.48S 1:18 430 16.01S	158.13W -67	029 .010	5/17/77 1954 1:28 430 15.80S 5/17/77 1959 1:33 429 15.69S 5/17/77 2009 1:43 429 15.45S	163.30w -64067 .101 .66



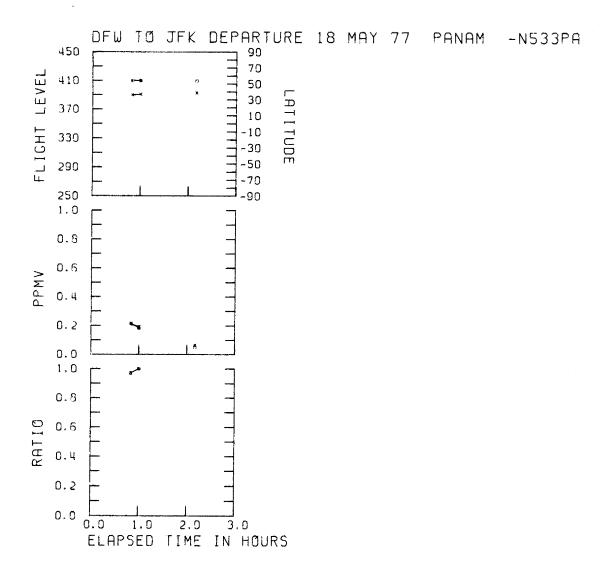
MAXIMUM VALUES: AMBIENT OZONE= .058 CABIN OZONE= .063 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)=\*\*\*\*\* TOTAL OBS IN CABIN: 9
DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE (C) CABIN		MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(DPMV) RATIO CABIN AMB.
5/17/77 2348 5/18/77 0048 5/18/77 0103 5/18/77 013	1:40 410 .17 1:55 410 1.75	S 168.38W -6005. S 165.46W -60044 N 164.77W -60026 N 163.03W -60026	0 •017 5 •043	5/18/77 0148 5/18/77 0158 5/18/77 0203 5/18/77 0248 5/18/77 0253	2:40 410 7.31N 2:50 410 8.65N 2:55 410 9.31N 3:40 410 15.31N 3:45 410 15.96N	162.24W -59. 161.98W -59. 159.67W -59.	.020 0.000 .022 .005 .020 .019



MAXIMUM VALUES: AMBIENT OZONE= .296 CABIN OZONE= .292 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= 1.06 TOTAL OBS IN CABIN: 10 DATA SOURCE: GASP TAPE VLUIO. FILE 2

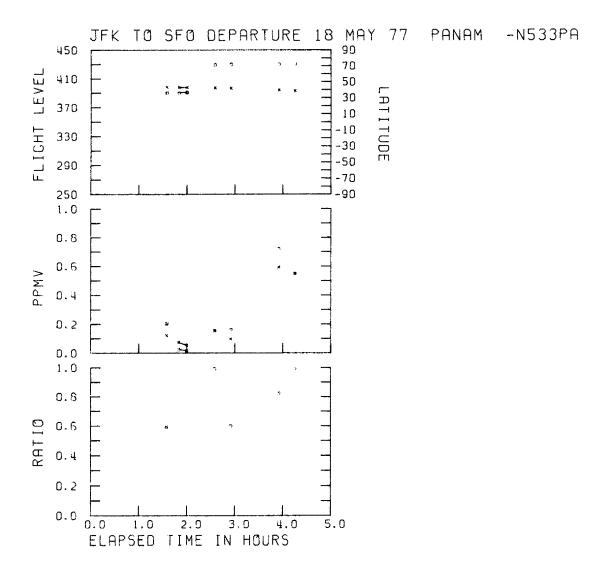
MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(PPMV) R		GMT ETIM FL LAT HR:MN		OZONE(DPMV) RATIO CABIN AMB.
5/18/77 0906 5/18/77 0916 5/18/77 0931 5/18/77 0946 5/18/77 1006	2:10 390 24.04N 2:20 390 24.56N 2:35 390 25.33N 2:50 411 26.15N 3:10 410 27.38N	133.64W -59. 131.60W -61. 129.46W -63.	.230 .281 .191 .189 1 .179 .204	•82 5/18/77 1•01 5/18/77 •88 5/18/77	1101 4:05 411 30.366 1126 4:30 411 31.296	1 117.83W -60. 1 113.41W -56. 1 112.56W -56.	.260 .264 .98 .292 .296 .99 .282 .267 1.06 .250 .270 .93



MAXIMUM VALUES: AMBIENT OZONE= .216 CABIN OZONE= .210 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.07 TOTAL OBS IN CABIN: 3
DATA SQURCE: GASP TAPE VL010, FILE 2

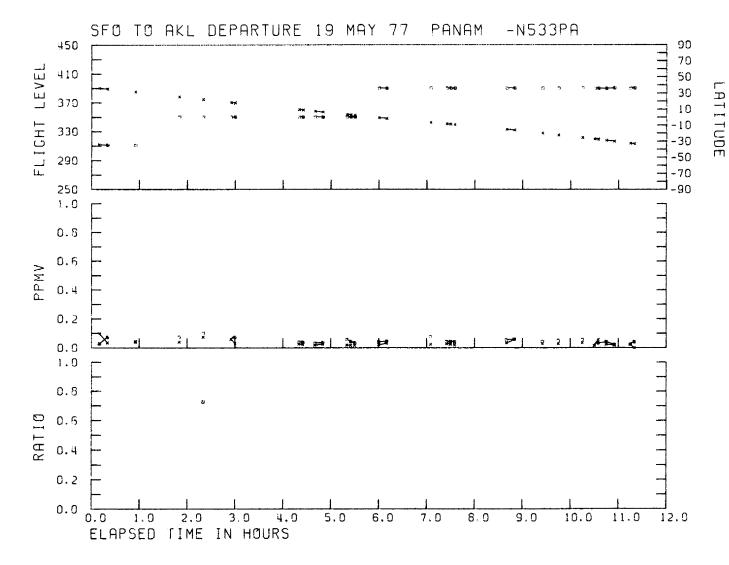
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

5/18/77 1522 0:50 410 36.09N 88.64W -61. .210 .216 .97 5/18/77 1532 1:00 410 36.67N 87.09W -62. .195 .183 1.07 5/18/77 1642 2:10 410 38.82N 75.78W -67. .066 .050



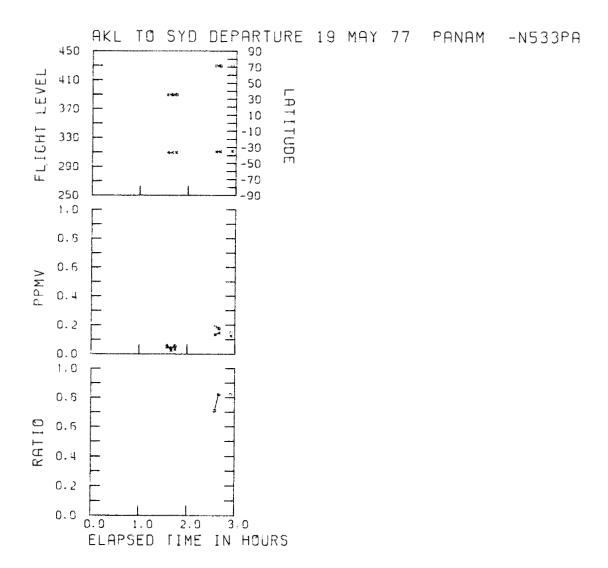
MAXIMUM VALUES: AMBIENT OZONE= .723 CABIN OZONE= .596 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .99 TOTAL OBS IN CABIN: 7 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO	MO/DA/YR GMT ETIM FL LAT HŘÍMN	LONG TEMP OZONE (PMV) RATIO
5/19/77 0030 5/19/77 0045 5/19/77 0055	1:36 390 43.20N 1:51 390 43.12N 2:01 391 43.03N	90.58W -63121 .204 .59 93.27W -63075 .025 95.03W -63054 .014	5/19/77 0130 2:36 429 42.44N 5/19/77 0150 2:56 430 41.97N 5/19/77 0250 3:56 430 39.68N 5/19/77 0310 4:16 430 38.66N	104.54W -54098 .163 .60 114.62W -48596 .723 .82



MAXIMUM VALUES: AMBIENT OZONE= .103 CABIN OZONE= .098 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .73 TOTAL OBS IN CABIN: 31 DATA SOURCE: GASP TAPE VL010, FILE 2

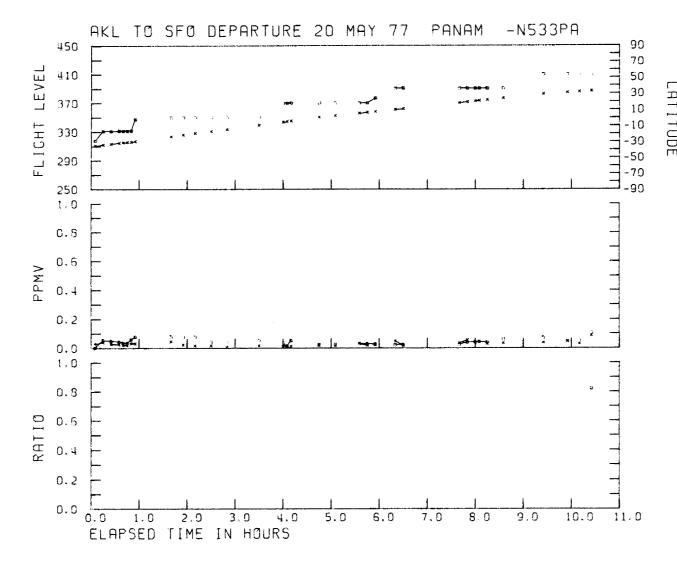
MO/DA/YR GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PR		RATIO	MONDANYR	GMT	HK:MN	FL	LAT	LONG		OZONE (	PMV) AMB.	Oltar
5/19/77 0611 5/19/77 0621 5/19/77 0656 5/19/77 0751 5/19/77 0821 5/19/77 0856 5/19/77 1025 5/19/77 1025 5/19/77 1030 5/19/77 1045 5/19/77 1055 5/19/77 1130 5/19/77 1130 5/19/77 1130 5/19/77 1205	0:20 0:55 1:50 2:20 2:55 3:00	311 351 351 350 350 350 350 350 350 350 350 350	35.40N 31.72N 25.68N 22.28N 18.48N 17.95N 9.55N	124.33W 125.55W 129.17W 134.50W 137.25W 140.22W 140.64W 147.64W 149.61W 150.60W 153.48W 153.97W 154.47W 157.33W	-44. -52. -51. -49. -44. -44. -44. -45. -45. -45.	.035 .040 .041 .075 .059 .031 .026 .022 .020 .025 .020 .017	028 074 045 076 103 0774 041 038 033 036 059 043 034	•73	5/19/77 5/19/77 5/19/77 5/19/77 5/19/77 5/19/77 5/19/77 5/19/77 5/19/77 5/19/77 5/19/77 5/19/77	1307 1328 1333 1338 1443 1453 1528 1548 1618 1638 1648 1658 1718	7:06 7:27 7:32 7:34 8:42 9:47 9:47 10:37 10:47 10:57	391 390 390 390 390 390 390 390 390 390	8.055 8.565 9.085 15.115 16.185 19.955 22.125 25.405 27.065 27.655 28.635 30.015 32.455	158.25W 162.83W 164.93W 165.27W 165.59W 171.20W 171.88W 174.38W 175.72W 177.56W 178.88W 179.60E 179.60E 179.60E 177.66E	-55. -55. -56. -56. -55. -55. -52. -59. -57. -59. -61.	.031 .025 .029 .025 .019 .034 .056 .030 .030 .035 .016 .057 .018	.044 .044 .044 .045 .051 .058 .058 .024 .042 .042 .042 .042	



AKL TO SYD (PAGE 1 OF 1) DEPARTURE: 19 MAY 77 AIRCRAFT: PANAM -N533PA

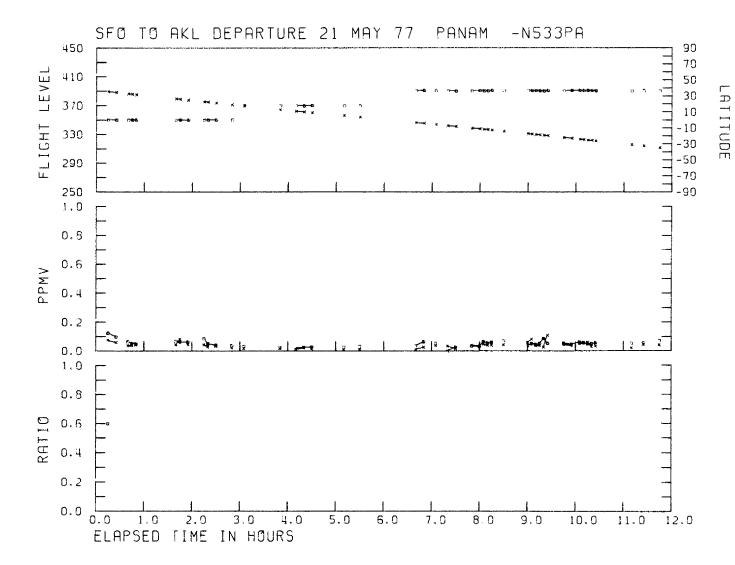
MAXIMUM VALUES: AMBIENT OZONE= .190 CABIN OZONE= .146 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .82 TOTAL OBS IN CABIN: 6
DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN		ZUNE(PPMY) RATIO ABIN AMB•	MO/DA/YR GMT	ETIM FL LAT HR:MN		ONE(¤PMV) RATIO BIN AMB.
5/19/77 2122	1:35 390 36.52S 1:40 390 36.43S 1:45 390 36.35S	166.93E -65.	.027 .042		2:35 430 35.265 2:40 430 35.145 2:55 430 34.755	158.11E -57	146 •178 •82



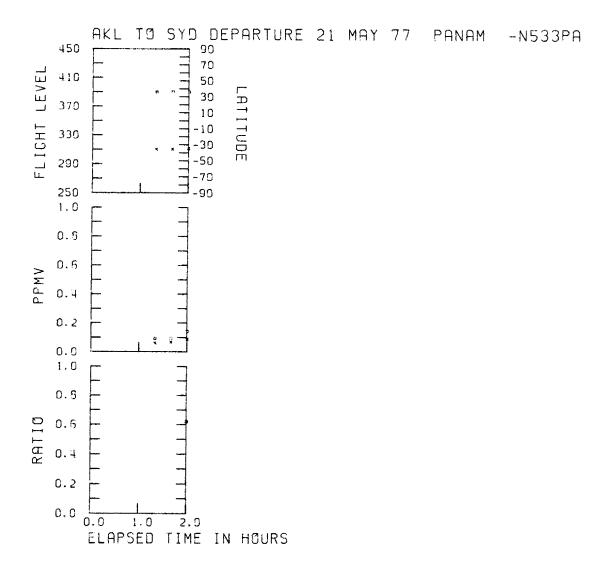
MAXIMUM VALUES: AMBIENT OZONE= .107 CABIN OZONE= .088 RATIO (LIMITED TO AMB. DZONE ABOVE U.1)= .82 TOTAL OBS IN CABIN: 33 DATA SOURCE: GASP TAPE VL010, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TEMP	OZONE (PPMV) CABIN AMB.		R GMT	ETIM FL HŘÍMN	LAT	LONG TE		(oPMV) f Amb.	RAT10
5/20/77 0932	0:05 318		176.35E -45.			7 1415	4:48 370		165.05W -4		•023	
5/20/77 0942 5/20/77 0952	0:15 331 0:25 331		177.18E -49.			7 1435 7 1505	5:08 370 5:38 370		163.12W -4 160.12W -5		•026 •029	
5/20/77 1002	0:35 332		178.78E -49.			7 1515	5:48 370		159.11w -5		•027	
5/20/77 1007	0:40 331		179.45E -49.		- ·	7 1523A	5:56 377	7.22N	158.24W -5		•026	
5/20/77 1012	0:45 332		179.90W -49.			7 1549	6:22 390	-	155.67W -5	•	•022	
5/20/77 1017	0:50 332		179.25W -49.			7 1559	6:32 390	_	154.60W -5		•022	
5/20/77 1022	0:55 348		178.81W -50.			7 1709	7:42 390				•024	
5/20/77 1107	1:40 350		176.59W -45.			7 1719	7:52 390		146.68W -5		•039	
5/20/77 1122 5/20/77 1140	1:55 350 2:13 350		176.55W -45.			7 1729 7 1734	8:02 390 8:07 390		145.83W -5		•042 •042	
5/20/77 1200	2:33 350		172.77W -46.			7 1744	8:17 390	-	144.53W -6		•042	
5/20/77 1220	2:53 350		170.98W -46.			7 1802	8:35 390	-	142.94W -6		•061	
5/20/77 1300	3:33 350	9.715	168.90W -46.	.017 .052	5/20/1	7 1852	9:25 410	29.08N	138.02W -0	6037	•07z	
5/20/77 1330	4:03 370		167.41W -51.			7 1922	9:55 410	-	133.83W -6	T	•047	
5/20/77 1335	4:08 370		167.16# -51.			7 1937	10:10 410	-	131.65W -6		• 055	
5/20/77 1340	4:13 370	4.40S	166.92W -51.	.014 .052	5/20/	7 1952	10:25 410	33.03N	129.48W -6	6088	•107	.82



MAXIMUM VALUES: AMBIENT OZONE= .125 CABIN OZONE= .110 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .60 TOTAL OBS IN CABIN: 46 DATA SOURCE: GASP TAPE VL010, FILE 2

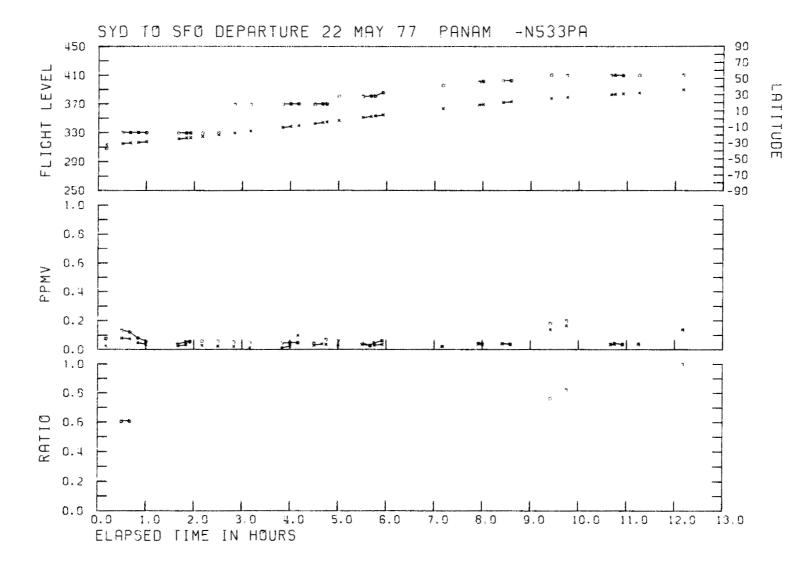
MO	/DA/YR	GMT	ETIM HR:MN	FL	LAT	LUNG	TEMP	OZONE CABIN		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP (C)	OZONE ( CABIN	PMV)	RATIO
5.	/21/77	0726	0:15	350	35.38N	125.57W	-54.	.075	•125	•60	5/21/77	1441	7:30	390	8.115	164.62W	-57.	.015	•028	
5.	/21/77	0737	0:26	350	34.33N	126.64W	-53.	.059	• 098		5/21/77	1501	7:50	390	10.145	166.43W	-57.	.040	• 035	
5.	/21/77	0/51	0:40	350	32.78N	128.17W	-53.	.038	• 064		5/21/77	1511	8:00	391	11.035	16/.44w	-56.	.036	•030	
5,	/21/77	0756	0:45	350	32.25N	128.67W	-52.	.040	• 053		5/21/77	1516	8:05	390	11.445	16/.99W	-55.	.047	•065	
5,	/21/77	0802	0:51	350	31.71N	129.18W	-53.	.044	• 049		5/21/77	1521	ន:្ត្រ	390	11.815	168.56W	-56.	.040	•056	
5.	/21/77	0851	1:40	350	26.48N	133.83W	-52.	.044	• 068		5/21/77	1526	<b>8:15</b>	391	12,365	168.94W	-56.	.040	•060	
5,	/21/77	0856	1:45	350	25.95N	134.28W	-52.	.081	• 064		5/21/77	1541	8:30	391	13.855	170.20W	-55.	.044	•070	
5.	/21/77	0907	1:56	350	24.87N	135.17W	-52•	.045	• 063		5/21/77	1611	9:00	391	17.00S	172.41W	-57.	.059	.037	
5.	/21/77	0726	2:15	350	22.77N	136.87W	-49.	.045	•087		5/21/77	1616	9:05	391	17.525	172.75W	-57.	.082	•051	
5.	/21/77	1660	2:20	350	22.33N	137.21W	-49.	.029	• 050		5/21/77	1621	2:10	391	18,065	173.11W	-57.	.037	•046	
5.	/21/77	0941	2:30	350	21.25N	138.05W	-49.	.035	.042		5/21/77	1626	9:15	391	18.535	173.50W	-57.	.039	• 052	
5.	/21/77	1001	2:50	350	19.15N	139.68W	-48.	.023	•038		5/21/17	1631	9:20	390	19.045	173.88w	-57.	.027	.087	
5.	/21/77	1016	3:05	370	17.61N	140.90W	-53•	.019	•033		5/21/77	1636	9:25	391	19.595	174.22W	-56.	.110	•053	
5.	/21/77	1101	3:50	370	12.96N	144.45W	-51•	.018	• 025		5/21/77	1656	9:45	391	21.775	175.53w	-55.	.046	• 054	
5.	/21/77	1121	4:10	370	10.97N	146.24₩	-51.	.013	•021		5/21/77	1706	9:55	391	22.855	176.12W	-55.	.037	• 047	
5.	/21/77	1131	4:20	370	10.04N	147.16W	-51.	.022	•026		5/21/77	1716	10:05	391	23.935	176.72W	-54.	.051	• 062	
5	/21/77	1141	4:30	370	9.09N	148.09W	-51.	.013	• 029		5/21/77	1721	10:10	391	<b>44.47</b> S	177.02W	-54.	.057	• 058	
5.	/21/77	1221	5:10	370	5.74N	152.21W	-50.	.011	•030		5/21/77	1726			25.005	177.32W	-54.	.060	•051	
5	/21/77	1241	5:30	370	3.82N	154.02W	-50.	.012	•034		5/21/77	1731	10:20	391	25.535	177.63W	-54.	.031	•051	
5	/21/77	1351	6:40	391	3.285	159.89W	-56.	.011	•037		5/21/17	1735	10:25	390	26.065	177.94W	-53.	.034	• 057	
5	771/151	1401	ó:50	391	4.255	160.81W	-57.	.027	• 0 6 4		5/21/77	1821	11:10	391	30.765	179.17E	-53.	.022	• 054	
_ 5	/21/77	1416	7:05	391	5.72S	162.20W	-57.	.039	• 055		5/21/77	1835	11:25	391	32.385	178.12E	<b>~54</b> •	.045	• 054	
<u> </u>	/21/77	1431	7:20	390	7.105	163.70W	-58•	.035	0.000		5/21/77	1856	11:45	390	34.545	176.63E	-54.	.042	• 072	



MAXIMUM VALUES: AMBIENT OZONE= .142 CABIN OZONE= .088 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .62 TOTAL OBS IN CABIN: 3
DATA SOURCE: GASP TAPE VLOID, FILE 2

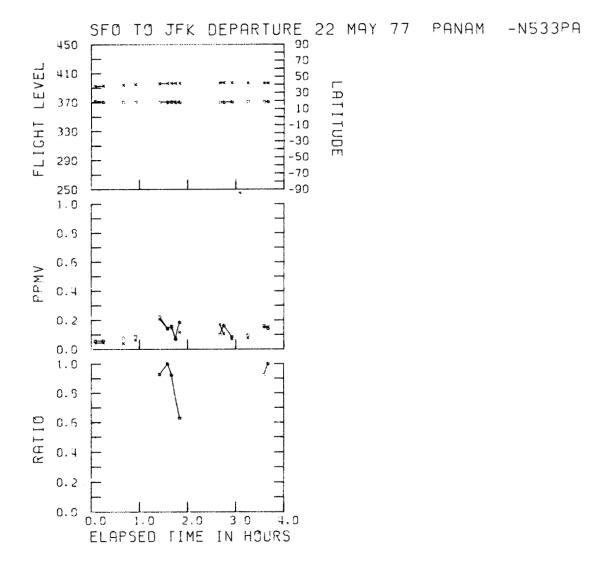
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(□PMV) RATIO HR:MN (C) CABIN AMB. HR:MN (C) CABIN AMB. (C) CABIN AMB.

5/21/77 2326 2:00 390 34.895 156.88E -48. .088 .142 .64



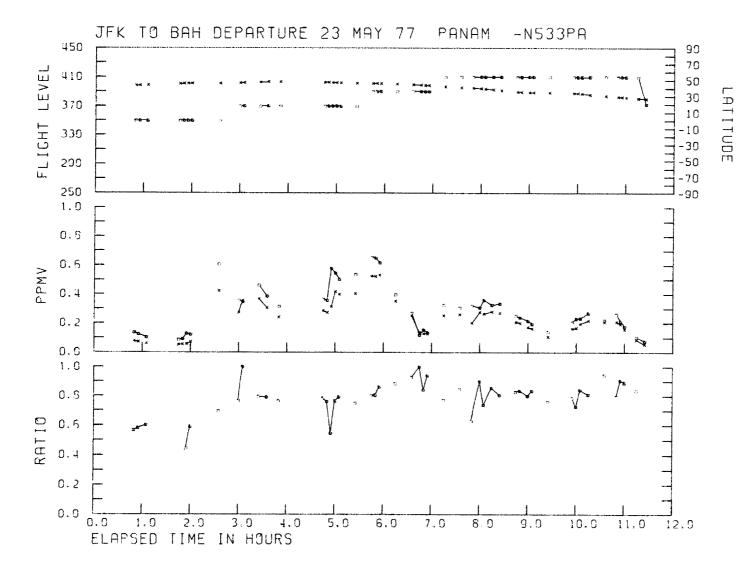
MAXIMUM VALUES: AMBIENT OZONE= .201 CABIN OZONE= .166 RATIO (LIMITED TO AMB. OZONE ABOVE U.1)= 1.04 TOTAL OBS IN CABIN: 35 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT ETI HR:N		LAT	LONG TE		OZONE (PPM CABIN AN	4V) 4B•	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PMV) AMB.	RATIO
5/22/77 0625 0:3 5/22/77 0635 0:4 5/22/77 0635 0:4 5/22/77 0655 1:0 5/22/77 0735 1:4 5/22/77 0745 1:5 5/22/77 0745 2:5 5/22/77 0805 2:1 5/22/77 0825 2:3 5/22/77 0845 2:5 5/22/77 0905 3:1 5/22/77 0945 3:5 5/22/77 0945 3:5 5/22/77 0955 4:5 5/22/77 1005 4:1 5/22/77 1025 4:3	30 330 330 330 330 330 330 330 330 330 330 330 330 370 370 370	6.535	153.98E -4 157.45E -4 159.18E -4 160.84E -3 162.48E -3 168.42E -4 169.76E -4 170.43E -4 172.36E -4 174.76E -5 177.52W -5 176.78W -5 175.97W -5 174.31W -4 173.48W -5	2. 8. 2. 3. 1. 1. 0. 0. 0.	.080 .1 .074 .1 .048 .0 .037 .0 .026 .0 .033 .0 .056 .0 .029 .0 .024 .0 .012 .0 .012 .0 .024 .0	077 132 122 080 059 054 060 060 060 063 064 064 064 064 064 064 064 064 064 064	•61 •61	5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77 5/22/77	1056 1126 1136 1141 1151 1306 1351 1356 1421 1431 1521 1541 1636 1641 1651 1711	7:56 8:01 8:26 8:36 9:26 9:46 10:44 10:46 10:56	381 380 381 381 385 401 400 410 410 410 410	4.735 2.825 .98N 2.22N 2.85N 4.12N 12.06N 16.79N 17.29N 19.74N 20.69N 25.07N 26.62N 30.19N 30.47N 31.05N 32.19N 36.11N	173.06W 171.73W 109.51W 168.41W 167.67W 159.79W 154.93W 151.51W 150.37W 144.63W 142.41W 136.33W 135.74W 134.50W 131.94W 124.79W	-53. -53. -53. -52. -54. -59. -61. -63. -62. -65. -66. -67. -67.	.035 .031 .035 .028 .030 .035 .022 .039 .034 .040 .037 .139 .166 .036 .037	.069 .062 .046 .026 .062 .062 .044 .040 .042 .037 .037 .043 .036	-



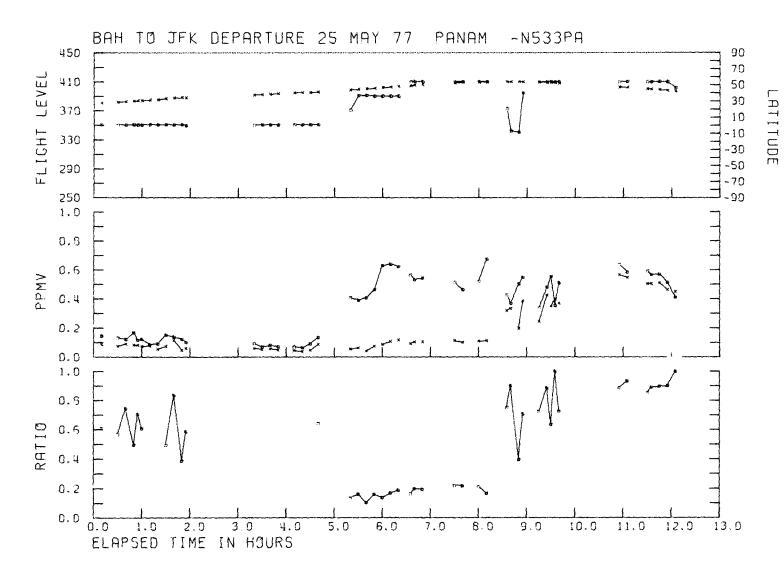
MAXIMUM VALUES: 4MBIENT OZONE= .223 CABIN OZONE= .207 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.06 TOTAL OBS IN CABIN: 15 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR G	GMT	ETIM HR:MN		LAT	LONG	TEMP	CARIN OZONF(		RATIO	MO/BA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN		
5/22/77 21 5/22/77 21 5/22/77 21	111 136	0:15 0:40	370 371	38.72N 39.80N	119.93W 118.08W 113.49W	-61. -61.	.046	∙058 •078		5/22/17 5/22/17 5/22/17	2246 2337	1:50 2:41	370 370	41.70N 41.79N 42.22N	101.19W 100.23W 90.39W	-59. -56.	•116 •169	•184 •099	.63
5/22/77 21 5/22/77 22 5/22/77 22 5/22/77 22	221 231	1:25 1:35	371 370	41.26N 41.50N	110.65W 105.01W 103.10W 102.13W	-60. -61.	.207 .142	•223 •141	•93 1•01	5/22/17 5/22/17 5/23/17 5/23/11 5/23/11	2352 0012 0032	2:56 3:16 3:30	371 371 371	42.21N 42.18N 42.01N 41.73N 41.65N	89.43W 87.56W 83.82W 80.19W 79.32W	-58. -58.	.070 .077 .149	.084 .096 .161	.93



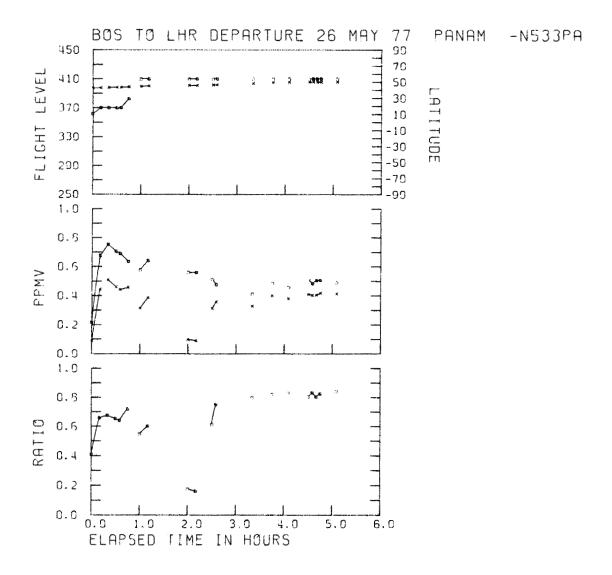
MAXIMUM VALUES: AMBIENT OZONE= .655 CABIN OZONE= .593 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.13 TOTAL OBS IN CABIN: 49 DATA SOURCE: GASP TAPE VL010, FILE 2

æ	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CARIN OZONE (		RATIO	MOZNAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (		RATIO
	5/24/77	8000	0:54	350	43.31N	62.81W	-54.	.077	•136	•57	5/24/77	0603	6:49	390	44.02N	6.39E	-61.	.135	•119	1.13
	5/24/77	0013	0:59	350	43.52N	61.88W	-54.	.072	•124	•58	5/24/77	0608	6:54	390	43.73N	7.24E	-61.	.129	•153	.84
	5/24/77	0023	1:09	350	43.93N	60.01W	-53.	.062	•103	•60	5/24/77	0613	6:59	390	43.45N	8.14E	-62.	.128	•136	94
	5/24/77	0103	1:49	350	45.58N	52.51W	-53•	.053	•088		5/24/77	0633	7:19	410	42.17N	11.58E	-59.	.252	•326	.77
	5/24/77	0108	1:54	350	45.76N	51.51W	-54.	.055	•091		5/24/77	0653	7:39	410	41.09N	15.06E	-60.	.260	.307	.85
	5/24/77	0113	1:59	350	45.92N	50.56W	-54.	.057	•128	• 45	5/24/77	0708	7:54	410	40.55N	17.79E	-60.	.202	.321	.63
	5/24/77	0118	2:04	350	46.03N	49.54W	-53.	.072	•122	•59	5/24/77	0718	8:04	410	39.91N	19.25E	-59.	.275	-306	.90
	5/24/77	_	2:39	350	46.11N	42.48W	-48.	.423	•607	•70	5/24/77	0723	8:09	410	39.47N	20.00E	-58.	.265	•359	.74
	5/24/77				46.62N	37.54W	-45.	.274	• 357	•77	5/24/77	0733	8:19	410	38.36N	21.16E	<b>~58.</b>	.278	.325	.80
	5/24/77				46.84N	36.55W	-46.	.356	• 347	1.03	5/24/77	0743	8:29	410	37.37N	22.49L	-58.	.270	• 335	.81
	5/24/77				47.64N	32.51W	-51•	.367	•461	.80	5/24/77	0803	8:49	410	35.68N	25.35E	-61.	.208	•251	.83
	5/24/77		3:39	370	47.97N	30.46W	<b>~</b> 55•	.305	• 385	•79	5/24/77	8080	8:54	410	35.18N	26.02E	-61.	.200	.239	.84
	5/24/77				48.14N	27.20W	-59.	.243	•316	•77	5/24/77	0818	9:04	410	34.99N	27.74E	-63.	.173	.216	.80
	5/24/77	0403	4:49	370	47.33N	16.03W	-56.	.200	• 365	• 78	5/24/77	0823	9:09	410	34.97N	28.64E	-63.	.163	•195	.84
	5/24/77	-			47.13N	15.06W	-56.	.212	•357	•76	5/24/77	0843	9:29	410	34.86N	32.13E	-64.	.108	.142	.70
	5/24/77	0413	4:59	370	46.99N	14.10W	-54.	.314	•576	•55	5/24/77	0913	9:59	410	34.06N	37.09E	-64.	.163	.207	.79
	5/24/77				46.88N	13.16W	-53.	.417	•546	•76	5/24/77	0918	10:04	410	33.84N	38.00E	-61.	.168	.231	.73
	5/24/77	-	5:09	370	46.75N	12.20W	-51·	.399	•503	•79	5/24/77	0923	10:09	410	33.42N	38.67E	-60.	.196	.233	.84
	5/24/77	0443	5:29	370	46.18N	8.48W	-51.	.404	•538	• 75	5/24/77	0933	10:19	410	32.05N	38.67E	-59.	.218	.269	.81
	5/24/77	0503	5:49	390	46.00N	4.59W	<b>~50</b> •	•526	•655	-80	5/24/77	0953	10:39	410	30.70N	41.446	-57.	.209	.221	.95
	5/24/77	0508	5:54	390	45.96N	3.59W	-50.	•523	•649	•81	5/24/77	1008	10:54	410	29.55N	43.54E	-57.	.209	.262	.80
_	5/24/77	0513	5:59	390	45.91N	2.65W	-51.	.533	•618	•86	5/24/77	1013	10:59	410	29.20N	44.26E	<b>-</b> 55.	.194	.214	.91
<u> </u>		0533	6:19	390	45.30N	.93E	-55.	.352	•397	•89	5/24/77	1018	11:04	410	28.83N	44.99E	-56.	.158	-177	89
79	5/24/77	0553	6:39	390	44.54N	4.59E	-56.	.251	.270	•93	5/24/77	1033	11:19	410	27.76N	47.19E	-55.	.088	•105	.84
											5/24/77	1043	11:29	372	27.10N	48.71E	-52.	•056	.078	



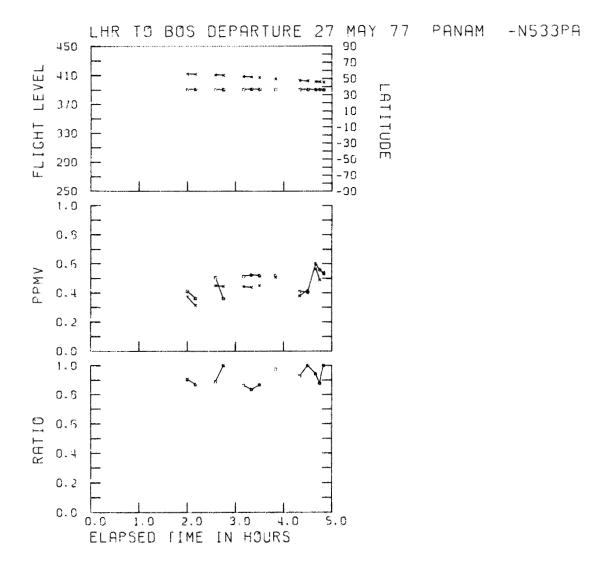
MAXIMUM VALUES: AMBIENT OZONE= .673 CABIN OZONE= .566 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.13 TOTAL OBS IN CABIN: 50 DATA SOURCE: GASP TAPE VL010, FILE 2

1	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE ( CABIN		RAT10
	5/25/77	2141	0:12	351	27.69N	47.53E	-47.	.088	•145	•61	5/26/77	0343	6:14	390	47.45N	2.51W	-54.	.108	•640	.178
	5/25/77	2201	0:32	351	28.89N	45.01E	-49.	.075	•132	•57	5/26/17	0353	6:24	390	48.07N	4.38W	-52.	.117	•622	.19B
	5/25/77	2211	0:42	350	29.50N	43.75E	-49.	.090	•121	•74	5/26/77	0408	6:39	410	49.28N	6.88W	-51.	.093	•564	.168
	5/25/77	2221	0:52	351	30.16N	42.51E	-50.	.083	•168	•49	5/26/77	0413	6:44	410	49.79N	7.65W	~52.	.105	•532	.20B
	5/25/77	2226	0:57	350	30.49N	41.90E	-51•	.083	•118	.70	5/26/77	0423	6:54	410	50.49N	9.48W	-53.	.105	•542	.198
	5/25/77	2231	1:02	350	30.81N	41.28E	-52•	.074	•122	•61	5/26/77	0503	7:34	410	52.60N	17.70W	-54.	.113	•512	.228
	5/25/77	2241	1:12	351	31.29N	39.97E	-53•	.077	•086		5/26/77	0513	7:44	410	53.01N	19.89W	~55.	.101	•462	.228
	5/25/77	2251	1:22	351	31.72N	38.64E	-54.	.055	•091		5/26/77	0533	8:04	410	53.60N	24.50W	-51.	.110	•518	.218
	5/25/77	2301	1:32	351	33.10N	38.66E	-53•	. 075	•152	.49	5/26/77	0543	8:14	410	53.81N	26.79W	-50.	.113	•673	.178
	5/25/77	2311	1:42	351	33.95N	37.78E	-54.	.116	•139	•83	5/26/77	0608	8:39	373	54.09N	32.59W	-47.	.320	•426	.75
	5/25/77	2321	1:52	351	34.27N	36.48E	-54.	.048	•124	•39	5/26/77	0613	8:44	342	54.11N	33.76W	-48.	.333	.370	90
	5/25/77	2326	1:57	350	34.30N	35.75E	-52.	.059	.101	•58	5/26/77	0623	8:54	340	54.10N	36.23W	-46.	.199	•503	.40
	5/26/77	0051	3:22	351	37.68N	24.17E	-55.	.059	•093		5/26/77	0628	8:59	394	54.08N	37.42W	-46.	.385	•546	.71
	5/26/77	0101	3:32	351	38.04N	22.72E	-55•	.051	•070		5/26/17	0648	9:19	410	53.66N	42.13W	-47.	.244	•338	.72
	5/26/77	0111	3:42	351	38.74N	21.42E	-56.	.056	•081		5/26/77	0658	وَجَ وَ	410	53.25N	44.38W	-47.	.424	.479	89
	5/26/77	0121	3:52	351	39.44N	20.08E	-56•	.047	•071		5/26/77	0703	9:34	410	53.03N	45.47W	-48.	.351	•553	£6.
	5/26/77	0141	4:12	351	40.61N	17.30E	-57.	.043	•070		5/26/77	0706	9:39	410	52.81N	40.53W	-50.	.399	•354	1.13
	5/26/77	0151	4:22	351	40.60N	15.67E	-57.	.036	•063		5/26/77	0713	9:44	410	52.58N	4/.59W	-49.	.370	•509	73
	5/26/77	0201	4:32	351	40.66N	14.00E	-58.	.047	•091		5/26/77	0828	10:59	410	47.76N	61.16W	-49.	•566	•638	.89
	5/26/77	0213	4:44	351	41.40N	12.29E	-58•	.086	•134	•64	5/26/77	0838	11:09	410	47.10N	62.81W	-49.	.546	•585	.93
	5/26/77	0253	5:24	371	44.12N	6.13E	-61•	.055	•407	•14	5/26/77	0903	11:34	410	45.35N	66.78W	-49.	.505	•592	.85
	5/26/77		5:34	391	44.69N	4.40E	-55•	.063	•390	•16B	5/26/77	0908	11:39	410	44.98N	67.56W	-51.	.504	•566	.89
2	5/26/77				45.28N	2.64E	-54.	.042	•408	·10B	5/26/77		11:49	410	44.25N	69.05W	-50.	.511	•570	.90
29	5/26/77	-	5:54	390	45.97N	.91E	-54.	.074	•462	•16B	5/26/77	0928	11:59	410	43.25N	70.26W	-53.	.462	•513	.90
	5/26/77	0333	6:04	390	46.79N	.70W	-52•	.087	•629	•14B	5/26/77	0938	15:09	402	42.22N	71.44W	-59.	.450	•410	1.10



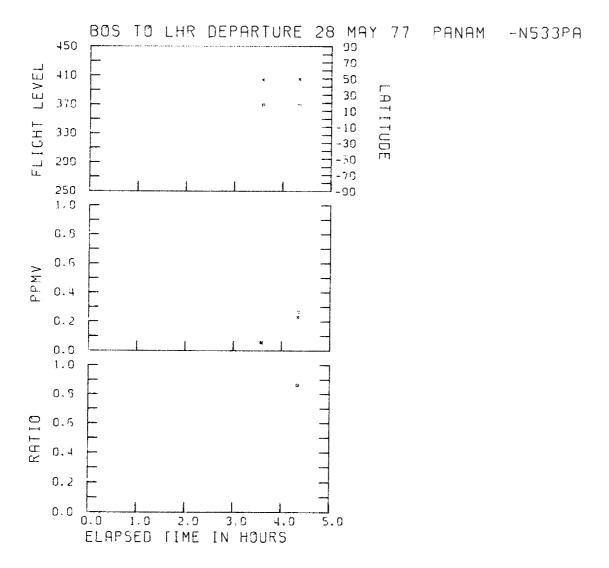
MAXIMUM VALUES: AMBIENT OZONE= .753 CABIN OZONE= .509 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .84 TOTAL OBS IN CABIN: 20 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	-	CARIN OSONE (			MOZNAZYR	GMT	HK:WN	FL	LAT	LONG	TEMP	OZONE ( CABIN	nPMV) AMB.	HAT10
5/27/17	0138	0:00	362	42.59N	68.38W	-60.	.089	•217	•41	5/27/77	0408	2:30	410	46.45N	37.81W	-54.	.314	.512	.61
5/27/77		0:10	370	42.96N	66.43W	-50.	.445	.670	•60	5/27/77	0413	2:35	410	46.68N	36.78W	-54.	.358	•477	.75
5/27/77	0158	0:20	370	43.30N	64.44W	-45.	.509	•753	•68	5/27/77	0458	3:20	410	48.50N	27.60W	-51.	.329	•412	.80
5/27/77	0208	0:30	370	43.60N	62.43W	-41.	.461	•705	•65	5/27/77	0523	3:45	410	49.54N	22.36W	-52.	•401	•487	-82
5/27/77	0213	0:35	370	43.73N	61.43W	-41.	.443	•691	•64	5/27/77	0543	4:05	410	49.99N	18.00M	-52.	.381	•458	.83
5/27/77	0223	0:45	383	44.U6N	59.41W	-42.	.450	•636	•72	5/27/77	0608	4:30	410	50.06N	12.75W	-53.	.411	•511	.80
5/27/77	0238	1:00	410	44.74N	56.47W	-44.	.317	•578	•55	5/27/77	0613	4:35	410	50.05N	11.69W	-54.	•403	•484	.83
5/27/77	0248	1:10	410	45.16N	54.47W	-48.	.307	•643	•60	5/27/77	0618	4:40	410	50.02N	10.60W	-54.	•406	•505	.80
5/27/77	0338	2:00	410	40.03N	44.03W	<b>+57</b> •	.099	•561	•18B	5/27/77	0623	4:45	410	49. Y9N	9.57W	-54.	.418	•507	.64
5/27/77	0348	2:10	410	45.48N	41.92W	-57.	.090	•560	•16B	5/27/77	0643	5:05	410	50.23N	5.39W	-56.	•414	•491	· 64



MAXIMUM VALUES: AMBIENT OZONE= .599 CABIN OZONE= .565 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.29 TOTAL OBS IN CABIN: 18 DATA SOURCE: GASP TAPE VL010, FILE 2

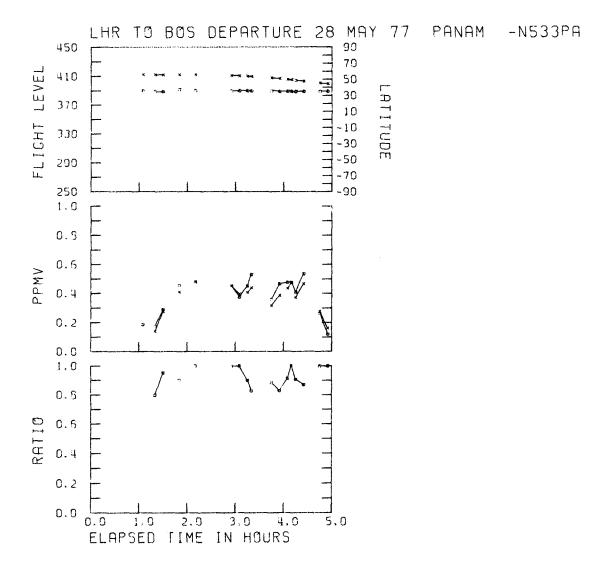
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) (C) CABIN AMB.		R GMT ETIM FL LAT HŘÍMN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
5/27/77 1218 5/27/77 1228 5/27/77 1253 5/27/77 1303 5/27/77 1328 5/27/77 1338	2:00 391 55.88N 2:10 391 55.67N 2:35 390 54.91N 2:45 391 54.35N 3:10 391 52.82N 3:20 391 52.15N	31.88W -45374 .413 34.34W -44315 .362 40.38W -44450 .506 42.57W -47445 .361 47.64W -50444 .514 49.59W -48437 .523	2 •87 5/27/7 5 •89 5/27/7 1 1•23 5/27/7 • •86 5/27/7 3 •84 5/27/7	7 1348 3:30 391 51.44N 7 1408 3:50 391 49.90N 77 1438 4:20 391 47.63N 7 1448 4:30 391 47.10N 7 1458 4:40 390 46.37N 7 1503 4:45 391 45.99N 7 1508 4:50 390 45.59N	51.52W -46450 .519 .87 55.26W -42508 .520 .98 60.93W -43381 .410 .93 62.79W -44419 .406 1.03 64.53W -45565 .599 .94 65.40W -45491 .559 .88 66.27W -47540 .533 1.01



MAXIMUM VALUES: AMBIENT OZONE= .267 CABIN OZONE= .231 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .87 TOTAL OBS IN CABIN: 2 DATA SOURCE: GASP TAPE VL010, FILE 2

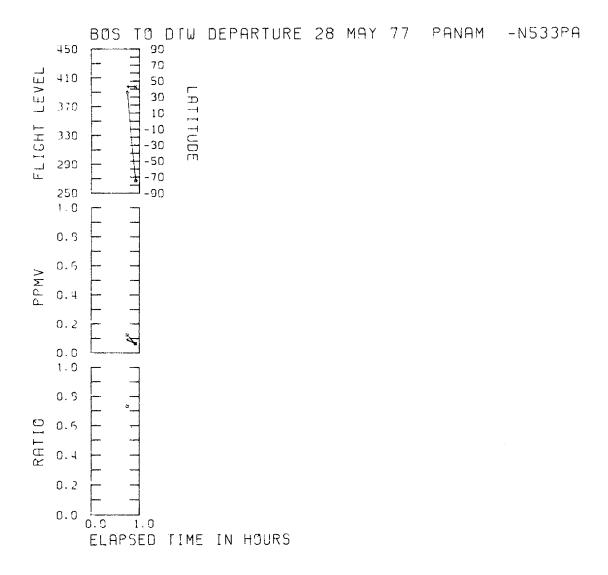
MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE(SPMV) RATIO HR:MN (C) CABIN AMB.

5/28/77 0436 3:35 370 48.68N 23.79W -58. .054 .058 5/28/77 0521 4:20 370 49.56N 14.40W -59. .231 .267 .87



MAXIMUM VALUES: AMBIENT OZONE= .536 CABIN OZONE= .482 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.34 TOTAL OBS IN CABIN: 16 DATA SOURCE: GASP TAPE VL010. FILE 2

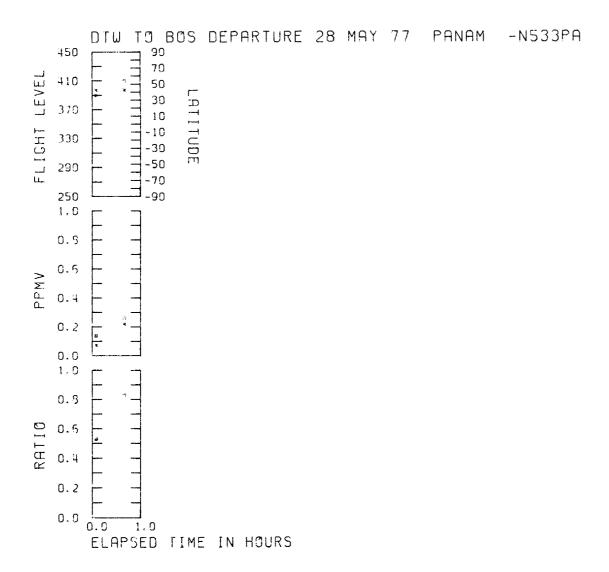
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV (C) CABIN AMB		YR GMT LTIM FL HRIMN	LAT LONG TEM (C)	P OZONE(@PMV) RATIO CABIN AMB.
5/28/77 1200 5/28/77 1215 5/28/77 1225 5/28/77 1245 5/28/77 1305 5/28/77 1300 5/28/77 1400 5/28/77 1410	1:05 391 56.11N 1:20 389 56.09N 1:30 389 56.03N 1:50 392 56.01N 2:10 390 56.06N 2:55 390 55.06N 3:05 390 54.60N 3:15 390 54.08N	24.03W -58. 27.29W -59140 .17 29.52W -61270 .29 34.12W -56411 .45 38.82W -48482 .47 49.72W -41453 .45 52.11W -39395 .37 54.41W -39408 .45	5 .80 5/28/ 0 .95 5/28/ 6 .90 5/28/ 8 1.01 5/28/ 4 1.00 5/28/ 5 1.05 5/28/ 3 .90 5/28/	77 1415 3:20 390 77 1440 3:45 390 77 1450 3:55 389 77 1500 4:05 389 77 1510 4:15 389 77 1520 4:25 389 77 1540 4:45 389 77 1550 4:55 389	51.99N 60.56W -48 51.04N 62.28W -45 49.96N 63.66W -46 49.42N 64.33W -46 48.86N 64.99W -48 47.77N 66.23W -49 45.59N 68.52W -57	• • • • • • • • • • • • • • • • • • •



MAXIMUM VALUES: AMBIENT OZUNE= .124 CABIN OZUNE= .091 RATIO (LIMITED TO AMB. OZUNE ABOVE 0.1)= .73 TOTAL OBS IN CABIN: 2 DATA SOURCE: GASP TAPE VL010. FILE 2

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

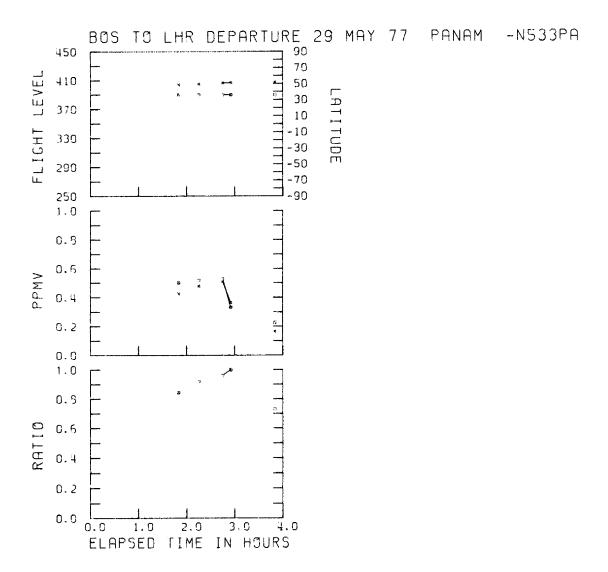
5/28/77 1931 0:45 390 43.13N 79.61W -61. .091 .124 .73 5/28/77 1941 0:55 267 42.99N 81.29W -31. .066 .064



MAXIMUM VALUES: AMBIENT OZONE= .203 CABIN OZONE= .218 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .83 TOTAL OBS IN CABIN: 2 DATA SOURCE: GASP TAPE VLOID, FILE 2

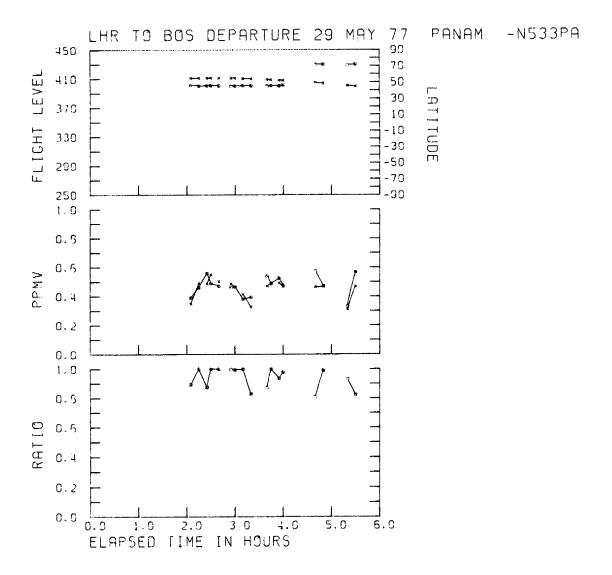
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB. HR:MN (C) CABIN AMB.

5/28/77 2212 0:05 390 42.26N 80.47W -63. .073 .138 .53 5/28/77 2247 0:4U 410 42.54N 73.63W -63. .218 .263 .85



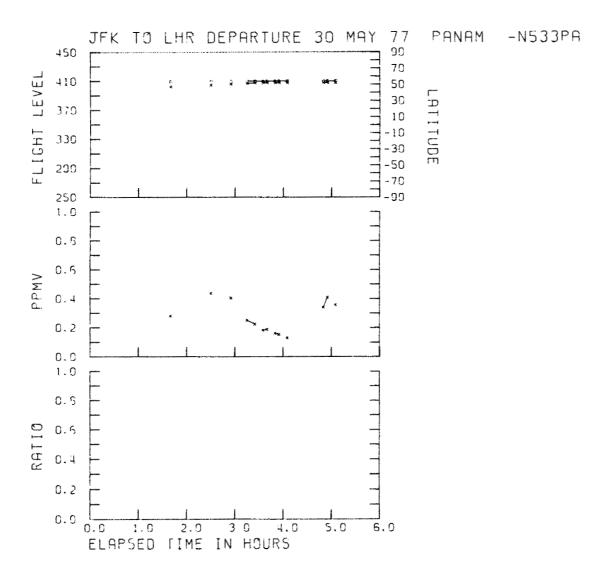
MAXIMUM VALUES: AMBIENT OZONE= .529 CABIN OZONE= .509 RATIO (LIMITED TO AMB. OZONE ABOVE U.1)= 1.09 TOTAL GBS IN CABIN: 5
DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MOZDAZYR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PMV) RATIO (C) CABIN AMB.
5/29/77 0243 5/29/77 0308	1:51 390 48.73N 2:16 390 49.77N	46.84W -43425 .503 .84 41.37W -48479 .520 .92	5/29/77 0349 2:56 390 51.58N	34.78W -57509 .529 .96 32.51W -62364 .333 1.09 19.99W -64166 .227 .73



MAXIMUM VALUES: AMBIENT OZONE= .574 CABIN OZONE= .551 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.12 TOTAL OBS IN CABIN: 17 DATA SOURCE: GASP TAPE VL010+ FILE 2

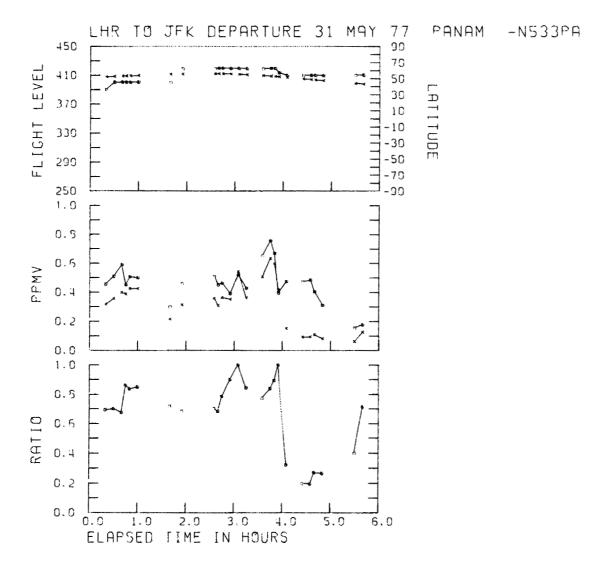
MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE (PPMV) CABIN AMB.	_	MO/DA/YR GA	MT ETIM F HŘÍMN	L LAT	LONG TEMP	OZONE(PPMV) RATIO CABIN AMB.
5/29/77 1213 5/29/77 1223 5/29/77 1233 5/29/77 1238 5/29/77 1248 5/29/77 1303 5/29/77 1308 5/29/77 1318	2:05 401 55.06N 2:15 401 55.02N 2:25 401 55.11N 2:30 401 55.10N 2:40 401 55.09N 2:55 401 55.00N 3:00 401 54.83N 3:10 401 54.45N	30.61W -55. 32.92W -53. 34.06W -52. 36.43W -50. 39.93W -45.	.350	1.06 .88 1.12 1.07 1.06	5/29/77 132 5/29/77 134 5/29/77 135 5/29/77 146 5/29/77 146 5/29/77 145 5/29/77 152 5/29/77 153	48 3140 40 53 3145 40 03 3155 40 08 4100 40 48 4140 43 58 4150 43 28 5120 42	1 54.03N 0 53.06N 1 52.83N 0 52.83N 0 52.34N 2 52.07N 0 49.18N 0 48.37N 9 45.77N 0 44.77N	50.80W -40. 52.87W -40. 53.95W -40. 61.10W -47.	.492 .489 1.01



JFK TO LHR (PAGE 1 OF 1) DEPARTURE: 30 MAY 77 AIRCRAFT: PANAM -N533PA

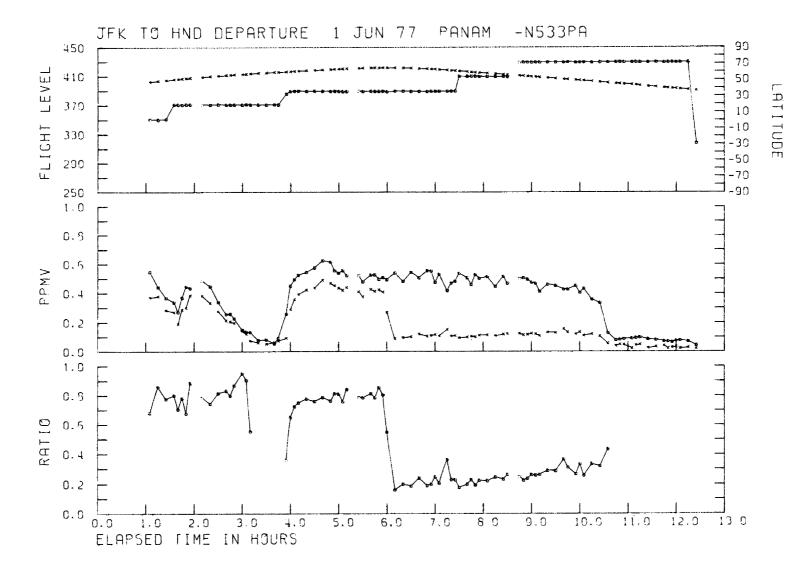
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .437 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 13 DATA SOURCE: GASP TAPE VL010, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZUNE(PP (C) CABIN A		GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (SPMV) RAT10 (C) CABIN AMB.
5/30/77 1611 5/30/77 1701 5/30/77 1726 5/30/77 1746 5/30/77 1756 5/30/77 1806	3:25 410 51.84N	54.30W -48280 43.54W -48437 37.92W -53404 33.34W -60251 31.01W -63224 28.68W -64182	5/30/77 5/30/17 5/30/77 5/30/77 5/30/77 5/30/77	1821 3:50 410 52.10N 1826 3:55 410 52.10N 1836 4:05 410 52.06N 1921 4:50 410 52.09N 1926 4:55 410 52.10N	27.49W -65187 25.13W -65161 23.94W -64153 21.64W -65130 11.80W -55340 10.68W -56408 8.54W -54357



MAXIMUM VALUES: AMBIENT OZONE= .756 CABIN OZONE= .634 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.05 TOTAL OBS IN CABIN: 25 DATA SOURCE: GASP TAPE VL010, FILE 2

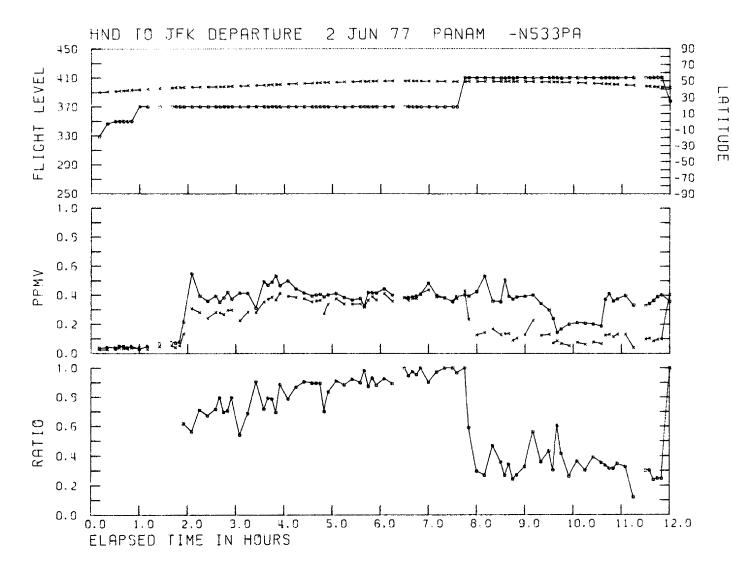
MO/DA/YR GMT	ETIM HR:MN	FL	LAT		_	OZUNE (	(PPMV) AMB•	RAT10	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (1 CABIN		RATIO
5/31/77 1056 5/31/77 1106 5/31/77 1116 5/31/77 1126 5/31/77 1126 5/31/77 1216 5/31/77 1216 5/31/77 1316 5/31/77 1316 5/31/77 1321 5/31/77 1321 5/31/77 1331	0:30 4 0:40 4 0:45 4 0:50 4 1:00 6 1:40 6 1:55 6 2:40 6	400 401 401 400 401 401 419 420 420	52.23N 52.73N 53.19N 53.41N 53.62N 53.98N 55.45N 55.78N 56.21N 56.15N 56.08N 55.82N	6.24W - 8.41W - 10.56W - 11.65W - 12.76W - 14.90W - 23.56W - 26.88W - 36.35W - 37.55W - 38.77W - 41.14W -	55. 57. 58. 57. 61. 62. 54.	.399 .388 .425 .425 .217 .315 .358 .309	•509 •590 •451 •507 •500 •301 •460 •508	.68 .86 .84 .85 .72 .68 .70 .68	5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77	1351 1411 1421 1426 1431 1441 1501 1511 1516 1526 1606	3:135 4 3:135 4 3:135 4 3:155 4 3:155 4 4:130 4 4:130 4 4:150 4 5:30 4	19 20 20 14 10 10 10	55.43N 54.99N 54.01N 53.28N 52.90N 52.51N 51.70N 49.92N 49.00N 48.57N 47.76N 44.22N 43.20N	43.43W 45.67W 49.95W 52.82W 53.75W 55.59W 60.53W 61.35W 63.02W 63.02W 70.10W	-44. -45. -46. -47. -48. -50. -51. -58. -65.	.507 .634 .600	.473 .485 .404 .312 .157	.84 .84 .89 1.05 .328 .208 .208 .278



MAXIMUM VALUES: AMBIENT OZONE= .625 CABIN OZONE= .491 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .95 TOTAL OBS IN CABIN: 91
DATA SOURCE: GASP TAPE VL010, FILE 3

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

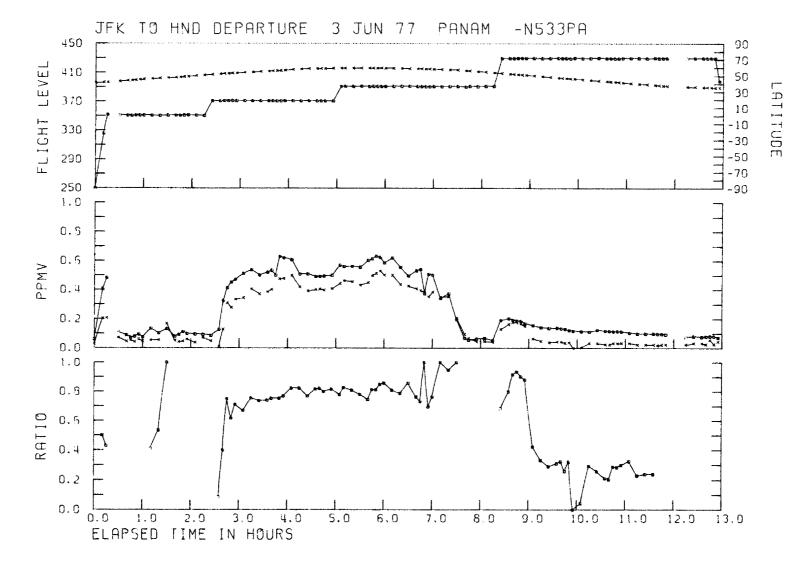
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE		RATIO	МО	√ņ,	A/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
	6/ 1/77	1739A	1:06	351	47.24N	82.52W	-47.	.373	•548	•68	6	/	1/77	2328A	6:55	389	63.00N	163.30W	-48.	.110	•554	.20B
	6/ 1/77				48.38N	84.12W		.380	•443					2333A			62.72N	164.58W		.117	•476	.25B
	6/ 1/77				49.30N	85.50W		.285					-,	2338A			62.39N	166.01W		.109	•531	.21B
	6/ 1/77	_	-		50.26N	87.01W		.271	•338					2348 2356			61.81N 61.21N	168.32W		.152	•419	.368
	6/ 1/77 6/ 1/77	_			50.74N 51.16N	87.81W 88.52W		.191 .289						0001			60.9UN	170.45W		.108	•471 •483	.23B
	6/ 1/77				51.59N	89.27W		.302						0007			•	172.77W		.095	•538	.188
	6/ 1/77				52.00N	90.02W	-	.385	• 436					0017			59.58N	175.07W		.100	•506	20B
	6/ 1/77				53.21N	92.35W		.384	•488					A2200			•	176.12W		.105	•461	23B
	6/ 1/77	1854A			54.04N	94.07W		.333						0027			58.74N	177.13W		.101	•528	.19B
	6/ 1/77	1904A	2:31	371	54.74N	95.64W	-53•	.277	• 339	•82	6	1	2/17	ASE00	7:59	410	58.35N	178.05W	-48.	.112	•503	.22B
	6/ 1/77		2:44	371	55.57N	97.61W	-58•	.214	• 257	•83	6	/ ;	2/77	0038A			57.76N	179.34W	-49.	.114	•514	.228
	6/ 1/77				55.90N	98.46W		.207						0048A		and the same of th	57.03N	178.53E		.109	• 447	.24B
	6/ 1/77	-			56.23N	99.32W	_	198						0058			56.38N	176.42E		.119	•516	.23B
	6/ 1/77				56.57N	100.25W		.142						0107A			55.74N	174.54E		.123	•468	.26B
	6/ 1/77				56.90N	101.16W		.122					-,	011BA	1 m m 1 m		54.93N	172.33E		.125	•502	.25B
	6/ 1/77 6/ 1/77	_	-		57.42N 58.01N	102.62W		.074						0123A 0128A			54.55N 54.18N	171.36E		•114	•507	.22B
	6/ 1/77		_	-	58.55N	104.41W 106.17W		.061 .054						0133A			53.81N	170.42E 169.44E		.118	•498 •476	.248 .26B
	6/ 1/77				59.10N	108.12W		.063						0133A			53.48N	168.45E		.121	•470	.26B
	6/ 1/77				59.38N	109.14W		.074						0147A			52.85N	166.71E		.109	•413	.268
	6/ 1/77	-			59.69N	110.37W		.093	-					0157A			52.16N	164.90E		.133	•462	-
P	6/ 1/77		-		59.95N	111.44W		.292						0207A		4 4	51.40N	163.08E		.130	•453	
20	6/ 1/77	2038A			60.21N	112.59W		.359			6	/	2/77	0217A	9:44	430	50.64N	161.36E	-60.	.156	.429	-
~	6/ 1/77	2047A	4:14	390	60.65N	114.70W		.394	•525	•75	6	/	2/77	0222A	9:49	430	50.24N	160.50E	-58.	.133	•428	.318
	6/ 1/77	2057A	4:24	389	61.13N	117.21W	-51•	.424	•545	•78	6	/	2/77	0231	9:58	429	49.52N	159.05E	-59.	.120	•453	.26B
	6/ 1/77		4:34	390	61.56N	119.84W	<b>-50</b> •	.437									49.17N	158.37L		.134	•405	.33B
	6/ 1/77	_			62.04N	122.51W		.491									48.74N	157.57E		.111	•433	
	6/ 1/77	_			62.40N	124.23W		.469								-	47.83N	155.95E		.120	•359	
	6/ 1/77				62.73N	125.94W		.453						0302			46.96N	154.47E		.107	•335	
	6/ 1/77				62.96N	127.24W		.438	-					0312			46.10N	153.10E		.056	•129	.43B B
	6/ 1/77 6/ 1/77				63.23N	128.90W 131.42W		.422 .440						0321 0326	-		45.32N 44.97N	151.91E 151.38E		.040	•079 •083	B
	6/ 1/77				63.99N	134.62W		.411						0328			44.55N	150.77E	-	.047	•088	8
	6/ 1/77				64.29N	137.68W		.376									43.88N	149.83E		.024	•092	
	6/ 1/77				64.53N	141.00W		.428					-			**	43.46N	149.23E		045	•094	B
	6/ 1/77				64.58N	142.60W		.414									42.70N	148.16E		.048	•099	
	6/ 1/77				64.61N	144.34W		425									41.80N	146.96E		.027	•086	
	6/ 1/77	_	_		64.62N	145.92W		.408					···		-		40.96N	145.88E		.034	•081	В
	6/ 1/77				64.61N	147.55W		.271									40.10N	144.80E		.041	.072	8
	6/ 1/77				64.55N	150.76W		.087									39.67N	144.26E		.023	•070	-
	6/ 1/77				64.40N	154.19W		.096					,				39.24N	143.73E		.030	.065	
	6/ 1/77	2307A	6:34	389	64.08N	157.31W	-47.	.102	•545	·198	6	/	2/77	0437A	12:04	430	38.80N	143.19E	-64.	.033	•075	В
	6/ 1/77	2317	6:44	389	63.6UN	160.21W	-48.	.121	•507	•24B	6	/	2/17	0442A	12:09	430	38.42N	142.73E	<b>-63</b> •	.024	•077	8
	6/ 1/77	2323A	6:50	389	M85.Ed	161.89W	-48.	.106	•556	•19B	_						37.54N	141.60E		.029	•071	
											6	/	2/17	0502A	12:29	316	36.88N	140.52E	-33•	.022	• 045	



MAXIMUM VALUES: AMBIENT OZONE= .547 CABIN OZONE= .437 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.13 TOTAL OBS IN CABIN: 92
DATA SOURCE: GASP TAPE VL010, FILE 3

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MQ/DA/YI	R GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	₽PMV)	RATIO
		HR:MN				(C)	CARIN	AMB.				HR:MN				(C)	CABIN	AMB.	
6/ 5/7	7 1012A	0.11	220	36.18N	143.76E	- 26	.027	•037		6/ 2/77	16074	6:06	370	50.04N	149.89W	-49	•412	•445	.93
	7 1022A			36.87N	145.17E	-	.026	-041		6/ 2/17				50.11N	147.68W		.359	•402	.89
6/ 2/7				37.54N	146.60E	_	.028	•038		6/ 2/17				50.12N	144.32W		•384	•383	-
	7 1031 7 1036A	-		37.88N	147.35E		.039	•050			1637A	2 2 5 2	40 4	50.10N	143.16W		.365	•386	.95
6/ 2/7				38.34N	148.40E		.035	•049		6/ 2/17			44.0	50.07N	142.01W		.379	•389	.97
	7 104Z 7 1047A			38.71N	149.27E		.031	•039			1647A	<del>.</del> .		50.03N	140.88W		.378	• 396	.95
6/ 2/7			-	39.04N	150.08E		.038	•049		6/ 2/17		the second second		49.98N	139.68W		.414		1.02
6/ 2/7				39.61N	151.71E		.040	•030		6/ 2/77				49.91N	137.54W		.437	•485	90
6/ 2/7				40.31N	153.84E		.028	1050		6/ 2/17				49.80N	135.50W		_		
6/ 2/7				41.03N	156.24E		.048	•068		6/ 2/77				49.59N	132.84W		.388 .383	•399	.97
6/ 2/7		-		41.78N	158.94E		.054	•076		6/ 2/77			_	49.41N	131.00W			_	1.00
	7 1148A			42.01N	159.83E		.042	•073		6/ 2/77				49.26N	129.55W		•362		1.02 .97
	7 1154A	_		42.17N	160.82E		.053	•079		6/ 2/77				49.30N	127.41W		•378	• 391	
	7 1159A	_		42.31N	161.88E		.134	-216	•62	6/ 2/77				49.36N	126.26W		•432 •234	• 404	1.07 .59B
-	7 1208A	-		42.50N	163.40E		.308	•547	•56	6/ 2/77				49.44N	124.04W		.127		
•	7 1217A			42.68N	164.97E		.281	•396	•71		1812A			49.48N	121.84W		.143	•426	.30B .27B
•	7 1228A			42.86N	167.00E		.242	•360	•67	6/ 2/77				49.47N	119.48W		.168	•531 •360	.47B
	7 1237A			42.99N	168.63E		.282	•394	•72	6/ 2/77			- 1	49.43N	117.36W		.127	• 355	368
6/ 2/7				43.06N	169.62E		.280	• 352	.80	6/ 2/77				49.39N	116.16W		.135	•504	.308 .27B
	7 1248A			43.23N	170.66E	_	.267	•383	•70	6/ 2/77				49.38N	114.88W	-	.135	.393	34B
	7 1253A			43.45N	171.54E		298	•421	•71	6/ 2/77				49.37N	113.73W		.091	•374	.24B
6/ 2/7				43.65N	172.39E		.298	•374	•80	6/ 2/77				49.34N	112.38W		.106	•390	.27B
	7 1310A			44.14N	174.64E		.225	•416	•54	6/ 2/77				49.26N	110.24w		.129	•394	33B
6/ 2/7				44.40N	175.94E		.284	-414	•69	6/ 2/77				49.15N	108.22W		.227	•404	56B
6/ 2/7			-	44.76N	177.88E		.282	•312	•90	•	1922A		-	49.01N	106.18W		.124	.344	36B
	7 1337A			45.08N	179.89E		.354	493	.72	6/ 2/77		- 10 - 1		48.83N	104.18W		.130	.300	43B
6/ 2/7		-		45.30N	179.13W		.373	.470	.79	6/ 2/77	_			48.71N	102.99W		.073	.240	308
6/ 2/7	-	-		45.49N	178.33W	-	.367	.492	•79	6/ 2/77				48.57N	101.77W		.087	.144	608
	7 1352A	_		45.74N	177.23W		.370	•532	•70	6/ 2/77	_		-	48.45N	100.81W		.070	168	428
	7 1357A			45.96N	176.24W		.414	•468	.89	6/ 2/77				48.14N	98.54W		053	.202	268
6/ 2/7				46.36N	174.26W		.393	.499	•79	6/ 2/77				,	96.77W		.077	.212	368
	7 1417A		-	46.71N	172.32W		. 385	.444	.87	6/ 2/77					93.96W		.063	•207	.308
6/ 2/7			_	47.05N	170.24W		.377	•417	•90	6/ 2/77				47.03N	92.35W		.079	•202	.398
6/ 2/7				47.46N	168.43W		354	. 395	•90	6/ 2/77					90.40W		.067	.189	.36B
6/ 2/7				47.67N	167.53W		361	•403	•90			10:42			89.27W		.125	•372	.34B
6/ 2/7				47.90N	166.46W		.364	•407	.89	6/ 2/77	-				88.32W		.130	•412	.32B
6/ 2/7	_ , ,			48.15N	165.27W		.272	•389	.70			10:52			87.43W		.114	-362	31B
6/ 2/7				48.32N	164.36W		.338	•404	.84	6/ 2/77					86.49W		131	•376	.35B
6/ 2/7				48.66N	162.47W		.376	•413	•91	- ,		11:07		_	84.52W		.131	•400	.33B
6/ 2/7				49.02N	160.22W		.340	•385	.88	6/ 2/77		11:16			82.89W		.040	•333	128
6/ 2/7			-	49.27N	158.40W		.340	•368	•92	6/ 2/77				43.61N	80.01W		.100	•331	30B
6/ 2/7				49.51N	156.41W		.340	.378	•90	6/ 2/77				43.29N	79.08W		.104	.344	308
6/ 2/7			-	49.63N	155.26W	_	.319	•325	•98	6/ 2/77		11:43			78.12W		.087	•364	24B
6/ 2/7				49.73N	154.30W		.366	•420	.87	6/ 2/77					77.12W		.097	•391	258
6/ 2/7				49.82N	153.27W		.390	•419	•93	6/ 2/77					76.28W		100	•404	.25B
,	7 1558A			49.82N	152.01W		.368	•417	•88	6/ 2/77			40.00		74.83W		.405		1.13
0/ 2/1	TODOM	5.57	310	42021N	TOCOUTM	-474	• 300	4 4 T 1	•00	U, 2/11	FEVEN	1	5,5	. 1 . 0 +11	1 1 1 0 3 1	J	• +03	4 7 3 7	- •



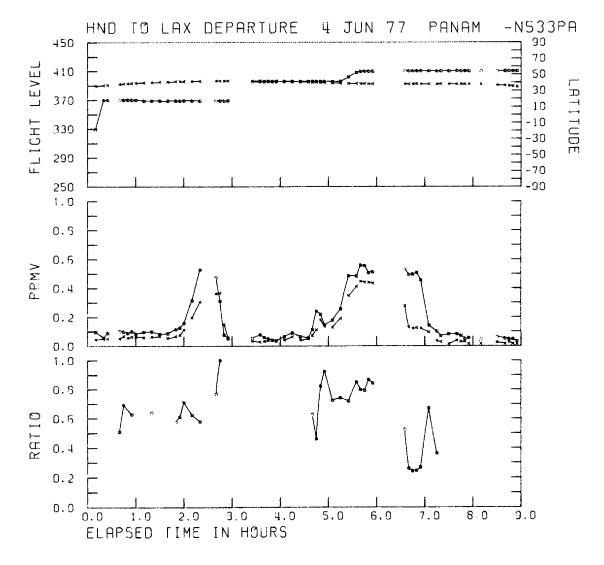
MAXIMUM VALUES: AMBIENT OZONE= .633 CARIN OZONE= .531 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.27 TOTAL ORS IN CARIN: 99 DATA SOURCE: GASP TAPE VIOLO, FTIE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED MO/DA/YR GMT FTIM FL LAT LONG TEMP OZONE (PPMV) RATTO MOZDAZYR GMT ETIM FL LAT LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB. HŘÍMN (C) CABIN AMB. HR: MN 6/ 3/77 1624 0:00 211 41.25N 74.18W -27. .028 6/ 3/77 2223 5:59 391 59.50N 145.08W -49. .531 -062 .625 . 85 6:04 391 59.46N 146.48W -48. .503 6/ 3/77 1634 0:10 325 41.78N 75.49W -46. .204 -406 -50 6/ 3/77 2228 -586 - 86

6/ 3/77 1640A 0:16 352 42.12N 76.46W -44. .208 6/ 3/77 2238 6:14 391 59.34N 149.27W -49. -502 •620 .81 .482 .43 6/ 3/77 2248 6:24 391 59.22N 152.03W -47. 6/ 3/77 1658 0:34 351 43,25N 78.86W -55. .073 •107 •68 .437 .555 .79 6/ 3/77 1708 80.09W -55. 6/ 3/77 2258 6:34 391 59-11N 154-73W -49-.426 .497 .86 0:44 351 44-01N -046 -090 0:49 350 44.40N .074 6/ 3/77 1713 80.73W -55. .055 6/ 3/77 2308 6:44 391 58.92N 157.40W -48. .407 •533 •76 6/ 3/77 1718 0:54 351 44.79N 81.39W -55. .043 .080 6/ 3/77 2313 6:49 391 58.81N 158.72W -49. .396 .541 .73 .381 .375 1.02 6/ 3/77 1723 0:59 351 45.17N 82.06W -55. .062 .094 6/ 3/77 2318 6:54 391 58.68N 160.03W -50. 6/ 3/77 1728 1:04 351 45.56N 82.73W -55. .046 .076 6/ 3/7/ 2323 6:59 391 58.53N 161.33W -52. .354 .508 .70 6/ 3/77 1738 .055 6/ 3/77 2328 7:04 391 58.38N 162.59W -52. 1:14 351 46.23N 84.21W -55. • 134 •41 .384 .503 .76 6/ 3/77 1/48 1:24 350 46.87N 85.76W -55. .055 •103 •53 6/ 3/77 2336 7:14 391 58.05N 165.03w -56. .352 .342 1.03 6/ 3/77 1758 1:34 351 47.48N 87.33W -55. 6/ 3/77 2348 7:24 391 57.67N 167.40W -57. .168 •132 1•27 .355 .374 .95 6/ 3/77 1808 88.88W -54. 7:34 391 57.28N 169.58W -60. 1:44 351 48-06N .051 .081 6/ 3/77 235R .207 .197 1.05 6/ 3/77 1813 1:49 351 48.37N 89.60W -54. .043 • 093 6/ 4/77 0008 7:44 390 56.68N 171.57W -62. .095 .076 6/ 3/77 1818 1:54 351 48.79N 90.21W -54. 6/ 4/71 0013 7:49 391 56.33N 172.50W -62. .047 •113 •42 -068 -056 6/ 3/77 1823 1:59 351 49.21N 90.83W -55. 6/ 4/77 0023 7:59 391 55.62N 174.30W -62. .061 .099 -045 .064 6/ 3/77 1833 2:09 351 50.05N 92.10W -55. .038 .096 6/ 4/77 0033 8:09 391 54.89N 176.04W -62. .046 .068 6/ 3/77 1843 2:19 350 50.88N 93.43W -55. . 072 -094 6/ 4/77 0043 8:19 391 54.12N 177.72W -62. .041 • 052 6/ 3/77 1853 2:29 371 51.58N 94.91W -61. .048 6/ 4/77 0053 8:29 430 53.34N 179.33W -64. .086 .131 •191 •69 6/ 3/77 1903 2:39 371 52.25N 96.48W -61. .011 •127 •09 6/ 4/77 0103 8:39 430 52.59N 179.01E -64. .163 .204 .80 6/ 3/77 1908 6/ 4/77 0108 8:44 430 52.23N 178.18E -64. 2:44 371 52.57N 97.28W -57. .129 •324 .177 .193 • 40 . 92 6/ 3/77 1913 2:49 371 52.88N 98.07W -55. 6/ 4/77 0113 8:49 430 51.86N 177.36E -64. .309 •413 .75 .176 •188 .94 6/ 3/77 1918 2:54 371 53.19N 98.91W -54. 6/ 4/77 0118 8:54 430 51.49N 176.56E -63. .279 • 452 •62 .167 -185 -90 99.78W -50. 6/ 3/77 1923 2:59 371 53.51N .71 6/ 4/77 0123 8:59 430 51.12N 175.77E -64. .335 •471 .150 -170 .88 6/ 3/77 1933 3:09 371 54.13N 101.63W -48. .344 •513 .67 6/ 4/77 0133 9:09 430 50.35N 174.22E -63. .066 .156 42B 6/ 3/77 1943 9:19 430 49.52N 172.66E -61. 3:19 371 54.66N 103.61W -47. 6/ 4/77 0143 .047 .142 .33B .405 •537 .75 6/ 3/77 1953 3:29 371 55.18N 105.65W -47. 6/ 4/77 0153 9:29 430 48.66N 171.11E -61. .370 .74 .040 .138 .29B •502 6/ 3/77 2003 3:39 371 55.76N 107.72W -46. .386 •521 .74 6/ 4/77 0203 9:39 430 47.80N 169.52E -59. .043 .139 .318 6/ 3/77 2008 3:44 371 56.05N 108.80W -46. 6/ 4/77 0208 9:44 430 47.43N 168.67E -59. 402 .534 • 75 .043 .134 .328 6/ 3/77 2013 3:49 371 56.32N 109.93W -47. 6/ 4/77 0213 9:49 430 47.06N 167.83E -58. .034 •500 •131 .26B 6/ 3/77 2018 3:54 371 56.59N 111.07W -47. .475 •630 • 75 6/ 4/77 0218 9:54 429 46.68N 167.00E -59. .039 .122 .32B 9:59 430 46.30N 166.18E -56. 6/ 3/77 2023 3:59 371 56.95N 112.15W -47. 6/ 4/77 0223 •620 •77 .000 •118 .04B 6/ 3/77 2033 4:09 371 57.69N 114.30W -45. .500 •607 .82 6/ 4/77 0233 10:09 430 45.51N 164.59E -56. .005 .115 6/ 3/77 2043 6/ 4/77 0243 10:19 430 44.72N 163.07E -55. 4:19 371 58.41N 116.61W -47. .033 .113 .29B .419 •509 •82 6/ 4/77 0253 10:29 430 43.94N 161.63E -56. 6/ 3/77 2053 4:29 371 58.71N 119.26W -48. .391 -509 .77 .032 .124 -26B 6/ 3/77 2103 4:39 371 58.85N 122.00W -49. .401 •491 6/ 4/77 0303 10:39 430 43.13N 160.21E -56. .025 .218 .82 •118 6/ 3/77 2108 4:44 371 58.93N 123.41W -49. 6/ 4/77 0308 10:44 430 42.74N 159.49E -55. .405 •493 .82 .024 .117 .21B 6/ 3/77 2113 4:49 370 59.06N 124.84W -48. .396 • 495 -80 6/ 4/77 0313 10:49 429 42.36N 158.76E -55. .033 .115 .29B 4:59 370 59.28N 6/ 4/77 0318 10:54 429 41.97N 158.04E -55. 6/ 3/77 2123 127.71W -48. .408 •500 -82 .033 .116 .288 6/ 3/77 2133 5:09 391 59.43N 130.57w -47. 6/ 4/77 0323 10:59 430 41.59N 157.34E -56. .034 .114 .443 •569 .78 .30B 6/ 4/77 0333 11:09 430 40.83N 156.00E -57. 6/ 3/77 2138 5:14 391 59.48N 132.05W -48. .463 •560 .83 .034 .105 .328 6/ 3/77 2148 135.00W -50. 6/ 4/77 0343 11:19 430 40.08N 154.74E -57. .023 .100 5:24 391 59.55N .455 •562 .81 6/ 3/77 2158 137.88W -48. •555 6/ 4/77 0353 11:29 430 39.35N 153.55E -58. .024 .100 5:34 391 59.54N .433 .78 6/ 4/77 0403 11:39 430 38.60N 152.38E -60. В 6/ 3/77 2208 5:44 391 59.53N 140.77W -49. .450 •604 • 75 .024 •100 6/ 3/77 2213 5:49 391 59.53N 142.21W -49. .500 •615 .81 6/ 4/77 0408 11:44 430 38.23N 151.82E -60. .020 .098 В 6/ 4/77 0413 11:49 430 37.86N 151.26E -60. .024 .097 6/ 3/77 2218 5:54 391 59.52N 143.64W -49. .514 .633 .81

JFK TO HND (PAGE 2 OF 2) DEPARTURE: 3 JUN 77 AIRCRAFT: PANAM -N533PA

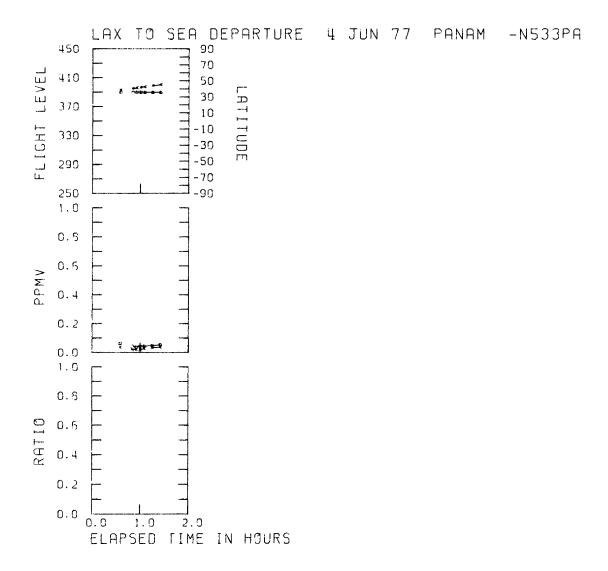
MAXIMUM VALUES: AMBIENT OZONE= .633 CABIN OZONE= .531 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.27 TOTAL OBS IN CABIN: 99
DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL LAT HR:MN		ONE(PPMV) RATIO BIN AMB.	MO/DA/YR GMT	ETIM FL LAT HRIMN		OZONE(pPMV) RATIO CABIN AMB.
6/ 4/77 0443 6/ 4/77 0453	11:54 430 37.48N 12:19 430 36.53N 12:29 430 36.27N 12:39 430 35.99N	147.43E -62( 146.10E -62(	025 •078 B 033 •082 B	6/ 4/77 0513 6/ 4/77 0518	12:44 430 35.84N 12:49 430 35.69N 12:54 430 35.54N 12:59 398 35.39N	143.48E -61. 142.83E -62.	.057 .082 B



MAXIMUM VALUES: AMBIENT OZONE= .559 CABIN OZONE= .447 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.18 TOTAL OBS IN CABIN: 62 DATA SOURCE: GASP TAPE VL010, FILE 4

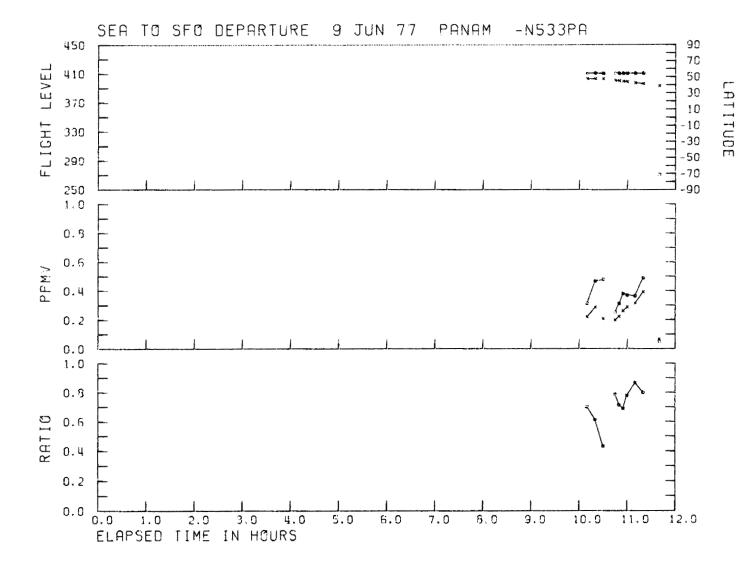
٨	40/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN O\CONF(		RATIO	MO/I)A/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
	6/ 4/77 6/ 4/77	0825 0835 0840 0850 08905 0910 0915 0925 0945 1005 1015 1105 1105 1140 1140 1150	HR:MN 0:10 0:20 0:25 0:45 0:45 0:55 1:00 1:10 1:30 1:45 2:00 2:45 2:55 2:55 3:35	329 370 370 370 370 370 370 369 369 369 369 369 369 369 369 369 369	35.74N 36.59N 37.01N 38.22N 38.60N 38.98N 39.55N 40.70N 40.70N 41.37N 41.82N 41.82N 42.02N 42.02N 42.02N 42.07N 41.82N 41	LONG  142.98E 144.67E 145.54E 148.19E 149.98E 150.97E 151.90E 153.91E 155.97E 158.00E 160.01E 161.98E 162.97E 163.84E 167.68E 171.29E 173.78E 178.99E 179.18W 178.27W	-40. -51. -53. -53. -53. -53. -53. -55. -55. -55	-	AMB.  .090 .058 .090 .104 .100 .090 .102 .086 .097 .100 .083 .088 .116 .126 .158 .316 .527 .474	.51 .63 .58 .61 .71 .62 .58 .77	MO/DA/YR  6/ 4/77	1255 1300 1305 1310 1320 1330 1350 1400 1455 1500 1505 1510 1535 1545 1555 1600	H 4445555555555555555555555555555555555	396 396 396 396 408 410 410 410 410 410 410 410 410 410 410	40.38N 40.19N 40.00N 39.80N 39.37N 38.93N 38.66N 38.57N 38.37N 38.37N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N 38.06N	LONG  160.62W 165.65W 164.70W 163.75W 161.82W 157.98W 155.18W 154.25W 154.25W 154.38W 144.88W 144.93W 142.02W 141.08W 139.09W 137.11W 136.12W 134.23W 131.30W 130.37W	(C) -61616257545351504859636363.			RATIO 
•	6/ 4/77 6/ 4/77 6/ 4/77 6/ 4/77 6/ 4/77 6/ 4/77	1200 1205 1210 1220 1230 1240	3:45 3:50 3:55 4:05 4:15 4:25	396 396 396 396 396 396	41.77N 41.69N 41.60N 41.40N 41.16N 40.88N 40.55N	177.35W 176.41W 175.45W 173.52W 171.57W 169.59W 167.61W	-61. -61. -60. -59.	.038 .040 .035 .041 .062 .041	.051 .041 .036 .065 .090 .064		6/ 4/17 6/ 4/17 6/ 4/17 6/ 4/17 6/ 4/17 6/ 4/17 6/ 4/17	1610 1625 1645 1655 1700 1705	7:55 8:10 8:30 8:40 8:45 8:50	410 410 410 410 410 410	37.97N 37.87N 36.63N 36.19N 35.83N 35.41N 34.96N	129.44W 126.76W 123.75W 122.17W 121.51W 120.88W 120.27W	-64. -65. -65. -65.	.015 .015 .025 .016 .028 .015	.056 .044 .061 .052 .048 .048	8 8 8 8



LAX TO SEA (PAGE 1 OF 1) DEPARTURE: 4 JUN 77 AIRCRAFT: PANAM -N533PA

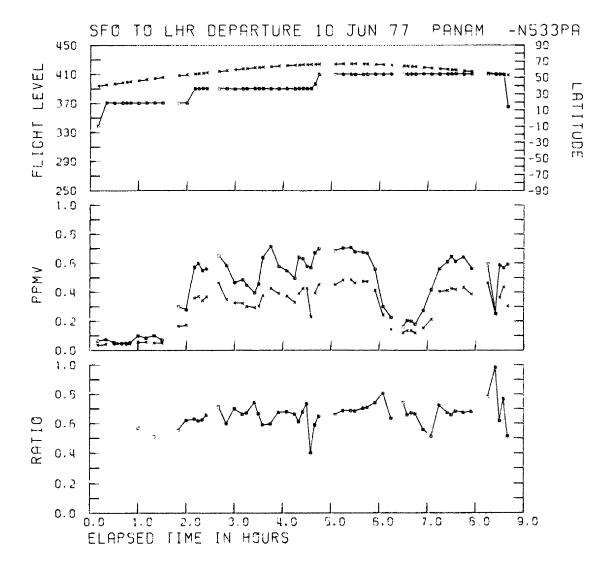
MAXIMUM VALUES: AMBIENT OZONE= .064 CABIN OZONE= .038 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)=\*\*\*\*\* TOTAL OBS IN CABIN: 7
DATA SOURCE: GASP TAPE VL010, FILE 4

MOZDAZYR GMT	ETIM FL LAT Hr:Mn	(C) CABIN			ETIM FL LAT HR:MN		OZONE(DPMV) RATIO CABIN AMB.
6/ 4/77 2046	0:35 390 38.83N 1 0:50 390 40.82N 1 0:55 390 41.48N 1	20.29W -60022	•044 6/ 4/7 •038 6/ 4/7	7 2101 7 2111	1:00 390 42.14N 1:05 390 42.82N 1:15 390 44.18N 1:25 390 45.54N	120.85w ~59. 121.25w ~59.	.028 .045 .036 .048



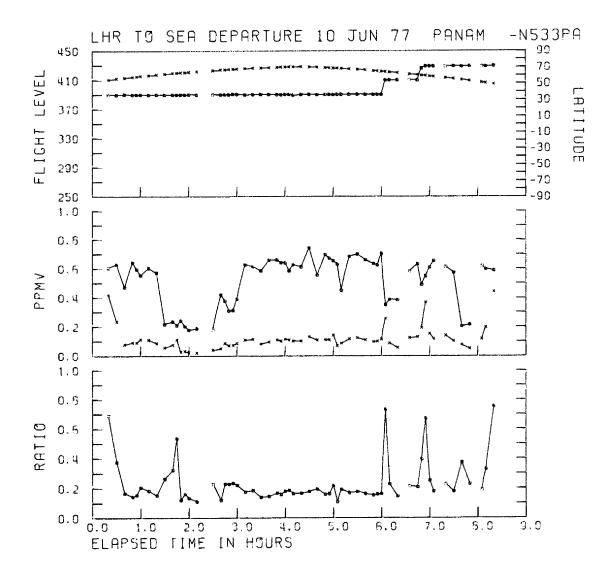
MAXIMUM VALUES: AMBIENT OZONE= .489 CABIN OZONE= .391 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .87 TOTAL OBS IN CABIN: 10 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR	GMT	ETIM HR:MN		LAT			OZUNE (			MOZDAZYR	GMT	ETIM FL HR:MN	LAT			OZONE () CABIN		
6/ 9/77 6/ 9/77 6/ 9/77 6/ 9/77	1909 1919	0:20 0:30	411 410	47.40N 47.36N	119.49W - 120.64W - 122.50W - 122.60W -	-55. -55.	.286 .207	•467 •480	•61 •43B	6/ 9/77 6/ 9/77 6/ 9/77 6/ 9/77	1949 1959	0:55 410 1:00 410 1:10 410 1:20 410	43.67N 42.43N	122.81W 122.89W	-55. -56.	.287 .315	•369 •364	.78 .87
6/ 9/77	1939	0:50	410	44.90N	122.66W ·	-59.	.222	•311	•71	6/ 9/77	2029	1:40 271	38.69N	122.85W	-33.	.067	.052	



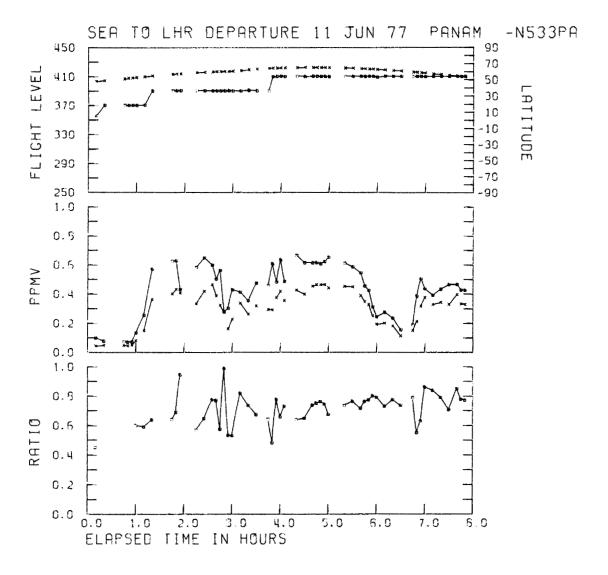
MAXIMUM VALUES: AMBIENT OZONE= .714 CABIN OZONE= .486 RATIO (LIMITED TO AMB. OZONE ABOVE U.1)= .98 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VLU10, FILE 4

٨	10/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO	MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (	PMV)	KATIO
	6/10/77	0139	0:10	339	39.68N	122.30W	-50.	OEU.	•066		6/10/77	0600	4:31	391	65.96N	71.58W	-44.	.425	•579	.73
	6/10/77				41.00N	121.75W		.043	• 074		6/10/77	0605	4:30	391	66.13N	69.87w	-43.	.229	•569	.40
	6/10/77	0159	0:30	371	42.28N	121.03W	-59+	. 444	• 055		6/10/17	0610	4:41	397	66.27N	68.21W		.394	•67]	.59
	6/10/77	0209	0:40	371	43.55N	120.26W	-59.	.046	• 048		6/10/77				66.40N	66.49W		•453	•700	.65
	6/10/77	0214	0:45	371	44.20N	119.87W	-59.	.042	•050		6/10/77				66.75N	59.46W		•452	•686	.66
	6/10/77	0219	0:50	371	44.87N	119.44₩	-59.	.045	• 053		6/10/77				66.90N	99.82M		• 484	•705	.69
	6/10/77	0229	1:00	371	40.18N	118.59W	-58•	.057	•100		6/10/77				66.96N	52.22W		•486	■ <b>7</b> 08	.69
	6/10/77	0239	1:10	371	47.51N	117.67W	-58•	.057	• 085		6/10/77	-			66.98N	50.44W		.464	•679	•68
	6/10/77	0249	1:20	371	48.84N	116.65W	-55•	.052	•102	•51	6/10/77				66.76N	46.88W		.475	•676	.70
	6/10/77	OULO	1:31	371	50.21N	115.09W	-54•	.050	•071		6/10/77			-	66.60N	45.12W		•473	•668	.71
	6/10/77	0320	1:51	371	52.39N	111.41W	-51•	.167	•301	•55	6/10/77	_			66.22N	41.70W		.414	•559	.74
	6/10/77	0330	2:01	371	53.39N	109.36W	-48.	.174	•280	•62	6/10/77				65.73N	38.36W		.243	.301	.81
	6/10/77	0340	2:11	390	54.32N	107.28W	-46•	•360	•571	•63	6/10/77				65.16N	35.21W		.144	•227	.63
	6/10/77	0345	_		54.77N	106.50M		.370	•598	•62	6/10/77	_			64.17N	30.68M		.121	•163	.74
	6/10/77	0350	2:21	391	55.22N	105.12W	-48.	.343	•549	•62	6/10/77				63.82N	29.25W		.135	•205	.66
	6/10/77	0355			55.80N	104.24W	-49.		•560	•66	6/10/77				63.45N	27.81W		.135	•201	•67
	6/10/77	0410			57.53N	101.40W	-43.	.464	•650	•71	6/10/77				63.08N	26.43W		.119	•179	.66
	6/10/77	0420	2:51	391	58.63N	99.38W		.349	•583	•60	6/10/77				62.29N	23.77W		.153	•274	•56
	6/10/77	0430			59.71N	97.21W		.327	• 467		6/10/77				61.43N	21.20W		.214	•417	.51
	6/10/77	0440	3:11	390	60.73N	94.96W	-48•	.322	• 486	•66	6/10/77				60.62N	18.84W		•406	•560	.73
	6/10/77			-	61.21N	93.78W		.301	• 449	•67	6/10/77				59.78N	16.49W		.411	•60s	.68
	6/10/77	-	-		62.04N	91.23W		.293	•395	•74	6/10/77	_			59.35N	15.36W		.424	•644	.66
<u>م</u> 2	6/10/77			_	62.44N	89.91W		.303	• 455	•67	6/10/77				58.92N	14.28W		.418	•611	-68
17	6/10/77		_		62.84N	88.59W		.375	•635	•59	6/10/77				58.03N	12.20W		•433	•641	.68
	6/10/77				63.58N	85.86W		.426	•714	•60	6/10/77				57.10N	10.21W		.385	•564	•68
	6/10/77		_	-	64.28N	82.89W		.390	•577	•68	6/10/77				55.11N	6.82W		•463	•593	•78
	6/10/77				64.84N	79.76W				•68	6/10/77	-			54.24N	5.05W		.247	•251	.98
	6/10/77				65.34N	76.55W			•496		6/10/77				53.85N	4.11W		• 362	•585	-62
	6/10/77	-		_	65.57N	74.88W		.390	•638		6/10/77				53.43N	3.21W		.435	•567	•77
	6/10/77	0555	4:26	391	65.77N	73.25W	-44•	.426	•629	•68	6/10/77	1010	6:41	366	52.97N	2.41w	-47.	.304	•591	.51



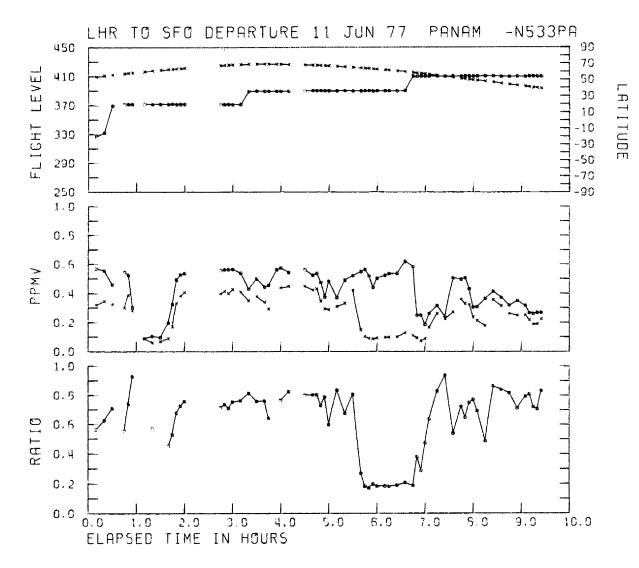
MAXIMUM VALUES: AMBIENT OZONE= .742 CABIN OZONE= .442 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .75 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL010, FILE 4

UNIA 9	00111	<b>0-</b>	-3			-														
MO/DA/	ΥR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
6/10/	77	1424	0:20	390	54.65N	3.20W	-48.	.419	•607	•69	6/10/77	1827	4:23	390	70.44N	69.10W				
6/10/				_	55.89N	4.57W		.236	•629	•38B	6/10/77	1837	4:33	390	70.10N	73.01W	-43.	.132	•742	*19B
6/10/		-		_	56.91N	6.34W		.079	•473	•17B	6/10/77		4:43	390	69.70N	16.77W	-42.	.108	•556	.198
6/10/					57.93N	8.11W			•642	•14B	6/10/77	1857	4:53	390	69.22N	80.37W	-42.		•697	.168
6/10/					58.45N	9.00W	-		•595	•15B	6/10/77	1902	4:58	390	68.97N	82.12W	-41.	•10 <del>9</del>	•672	-
6/10/					58.95N	9.91w			• 555	.218	6/10/77	1907	5:03	390	68.70N	83.83W	-42.	.142	•655	.228
6/10/					59.91N	11.80W		.111	•604		6/10/77	1912	5:08	390	68.42N	85.50W	-42.	.069	•632	•11B
6/10/			_		60.81N	13.73W		.087	•572	•15B	6/10/77	1917	5:13	390	68.12N	87.12W	-42.	.086	• 449	.19B
6/10/					61.66N	15.57W		_	•217	•26B	6/10/77	1927	5:23	390	67.49N	90.23W	-42.		•684	• -
6/10/			_		62.51N	17.52W		-	•236		6/10/77	1937	5:33	390	66.83N	93.26W			•700	
6/10/		-		-	62.91N	18.50W			.210	•538	6/10/77	1947	5:43	390	66.11N	96.15W			•661	.16B
6/10/			_		63.25N	19.65W			•242	·12B	6/10/77	1957	5:53	390	65.34N	98.90W	-40.		•635	.15B
6/10/		-		_	63.55N	20.81W		.033	•204		6/10/77	2002	5:58	390	64.93N	100.23W			•625	.16B
6/10/		-	_		63.85N	22.02W	_		•178	•13B	6/10/77	2007	6:03	390	64.49N	101.55W			•704	.16
6/10/				-	64.51N	24.41W	-		•188	•11B	6/10/77	2012	6:08	409	64.06N	102.77W	-40.		• 350	-
6/10/	, -				65.84N	29.36W			•180	•23B	6/10/77	2017	6:13	410	63.61N	104.00W			•388	_
6/10/		-			66.49N	32.03W			•420	·128	6/10/77	2027			62.68N	106.32W			• 384	
6/10/		-			66.81N	33.48W			•377	•238	6/10/77	2042	6:38	410	61.21N	109.56W			•583	-
6/10/			_		67.11N	34.98W			•309	•23B	6/10/77	2052	6:48	410	60.18N	111.49W			•632	-
6/10/			-		67.40N	36.47W			•312	•23B	6/10/77	2057	6:53	426	59.66N	112.41W	-46.	-	• 49()	
6/10/					67.67N	37.99W			•391	•228	6/10/77	2102	6:58	429	59.14N	113.29W		-	•549	-
6/10/					68.30N	42.37W				•18B	6/10/77	2107	7:03	429	58.61N	114.15W			•609	
₹ 6/10/				_	68.67N	45.92W				•19B	6/10/77	2112	7:08	429	58.07N	115.01W			•654	
216 6/10/			-	_	68.98N	49.69W			•586	·14B	6/10/77	2127	7:23	429	56.49N	117.30W			•614	
6/10/		_			69.24N	53.53W				•15B	6/10/77	2137	7:33	429	55.41N	118.72W			•573	
6/10/					69.71N	57.19W			•661	•17B	6/10/77	2147			54.15N	119.41W			-204	
6/10/					69.91N	59.11w	•		•646	•16B	6/10/77	2157			52.82N	119.81W			•215	-
6/10/		_			70.08N	61.04W			•640	-188	6/10/77	2212			50.84N	120.14W			•620	
6/10/					70.21N	63.02W					6/10/77	2217			50.18N	120.21W			•597	
6/10/					70.33N	65.10W			•629	•168	6/10/77	2227	8:23	429	48.97N	120.86W	-52.	•442	•588	.75
0,10,	, ,		+113	55,																



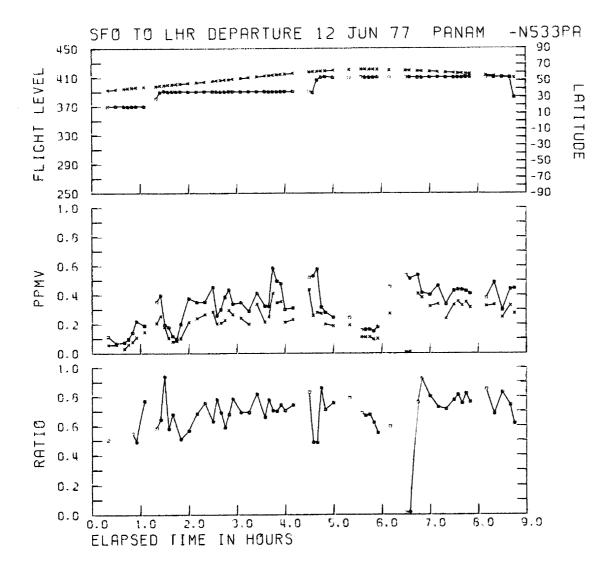
MAXIMUM VALUES: AMBIENT OZONE → 667 CABIN OZONE → 464 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .99 TOTAL OBS IN CABIN: 54
DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/Y	R GM	T ETIM HR:MN	FL	LAT	LONG		CABIN CABIN		RATIO	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
6/11/7	7 013	9 0:10	356	48.15N	119.50W	-56.	.045	-100		6/11/77	0549	4:20	411	65.08N	55.93W	-46.	.427	•667	.64
6/11/7	7 014	9 0:20	370	48.93N	117.65W	-60•	.048	•077		6/11/77	0559	4:30	410	65.06N	52.48W	-45.	.398	.614	.65
6/11/7	7 021	4 0:45	370	51.35N	113.51W	-60.	.048	• 074		6/11/77	0609	4:40	410	65.03N	49.07W	-43.	•453	•614	.74
6/11/7	7 021	9 0:50	370	51.88N	112.67W	-59.	.045	•071		6/11/77	0614	4:45	410	65.06N	47.38W	-43.	.463	•616	.75
6/11/7	77 022	4 0:55	370	52.42N	111.80W	-59.	.051	•073		6/11/77	0619	4:50	410	65.08N	45.69W	-44.	.464	•608	.76
6/11/7	17 022	9 1:00	370	52.94N	110.90W	-59.	.081	•135	-60	6/11/77	0624	4:55	410	65.08N	43.99W	-44.	.464	•622	.75
6/11/7	77 023	9 1:10	370	53.88N	108.88W	-55•	.150	• 254	•59	6/11/77	0629	5:00	410	65.06N	42.28W	-42.	.442	•654	.68
6/11/7	77 024	9 1:20	390	54.78N	106.79W	-48.	•363	•569	•64	6/11/77	0649	5:20	410	64.65N	35.61W	-44.	.452	•613	.74
6/11/7	77 031	4 1:45	391	56.84N	101.15W	-45.	.401	•626	•64	6/11/77	0659	5:30	410	64.31N	32.45W	-45.	.449	•587	.76
6/11/7				57.19N	99.89W	-42.	.432	•627	•69	6/11/77	0709	5:40	410	63.90N	29.38W	-46.	.390	•545	.72
6/11/7				57.45N	98.56W	-41.	.407	•431	•94	6/11/77		5:45	410	63.66N	27.91W	-47.	.348	• 456	.76
6/11/7				58.99N	93.60W		.333	•583	•57	6/11/77	-			63.40N	26.45W	-48.	.329	• 425	.77
6/11/7	-			59.37N	90.71W		•419	•648		6/11/77				63.13N	25.03W	_	.251	•313	.80
6/11/7	77 040	4 2:35	391	59.78N	87.78W	-40•	.464	•598	•78	6/11/77		6:00	409	62.84N	23.62W	-51.	.194	•245	.79
6/11/7				59.97N	86.28W	-40.	.387	•502		6/11/77				62.23N	20.93W		.201	•275	.73
6/11/7				60.15N	84.76W		.323	•562		6/11/77				61.58N	18.35M		.183	•236	.78
6/11/		_		60.32N	83.23W			• 278		6/11/77				60.89N	15.79W			•156	.74
6/11/7				60.46N	81.70W		.162			6/11/77	-			59.78N	12.21W		•151	•191	.79
6/11/7			-	60.59N	80.15W		.228	•430	_	6/11/77				59.39N	11.09W			• 386	-55
6/11/7			-	61.51N	77.59W		•338	•413		6/11/77				59.00N	10.04W		.319	•505	.63
6/11/7		_		62.41N	74.98W			• 355	• 74	6/11/77			_	58.52N	9.13W			•437	.86
6/11/7				63.25N	72.19W		.320	• 475		6/11/77				57.55N	7.36W		.330	• 393	.84
6/11/7			-	64.20N	67.60W		.295	• 458	•64	6/11/77				56.66N	5.59W		.344	•434	•79
S 6/11/1		_		64.41N	65.97W		.292	•606		6/11/77				55.65N	4.05W		•33C	•466	.71
6/11/7				64.60N	64.31W		.375	•483	•78	6/11/77				54.55N	2.84W		.397	• 466	- 85
6/11/7	-			64.77N	62.68W		.418	•634	•66	6/11/77				54.02N	2.12W			• 429	.78
6/11/7	77 053	4 4:05	410	64.92N	61.01W	-47.	.356	•487	•73	6/11/77	0919	7:50	410	53.38N	1.93W	-43.	•330	•427	•77



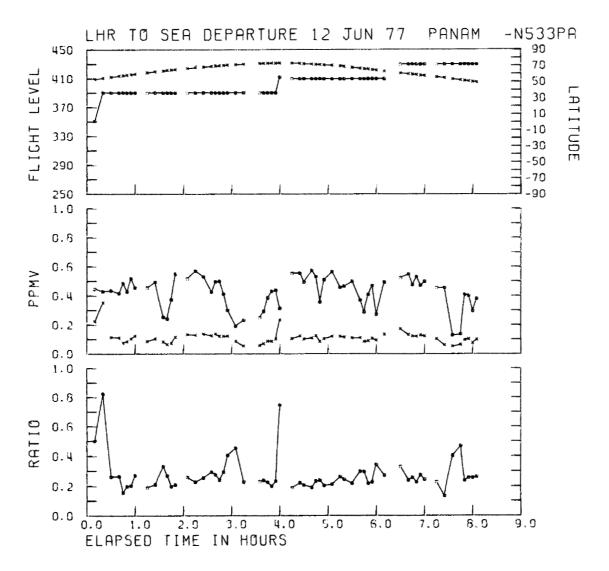
MAXIMUM VALUES: AMBIENT OZONE= .619 CABIN OZONE= .449 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .94 TOTAL OBS IN CABIN: 66 DATA SOURCE: GASP TAPE VL010, FILE 4

					-															
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
	6/11/77	1356	0.10	227	53.34N	2.13W	<b>-</b> 42.	.320	•568	•56	6/11/77	1905	5:70	396	65.77N	90.13w	-38.	•331	• 490	.68
	6/11/77				54.65N	3.27W		.346	•554		6/11/77				65.10N	93.08W			•521	.81
	6/11/77				55.86N	4.60W		.325	•459		6/11/77				64.38N	95.89W		.147	•548	278
	6/11/77				57.42N	7.27W		.301	•544	•55	6/11/77				63.97N	97.19W			•562	188
	6/11/77	- ,		_	57.94N	8.14W		.388	•525	•74	6/11/77				63.56N	98.44W		.089	•520	.17B
	6/11/77				58.47N	9.04W		.282	•304		6/11/77				63.13N	99.65W		.086	•439	208
	6/11/77	-			59.92N	11.83W		.089	•089	4,3	6/11/77	-			62.71N	100.86W		.092	•502	188
	6/11/77		_		60.88N	13.89W	-	.060	•105	•57	6/11/77				61.86N	103.18W		.096	•523	188
	6/11/77				61.75N	16.02W		.068	•096		6/11/17				61.43N	104.29W		.097	•535	.18B
	6/11/77	_	_		62.61N	18.32W		.089	•197	• 45	6/11/77		and the second		60.53N	106.41W		.101	•536	19B
	6/11/77	-			63.01N	19.51W		.171	•324		6/11/77		and the second		59.63N	108.36W		.128	•619	.218
	6/11/77	_			63.42N	20.76W		.332	•492		6/11/77				58.45N	109.66W		.109	•582	198
	6/11/77	-			63.82N	22.04W		.383	•528	•73	6/11/77				57.84N	110.26W		.094	249	38B
	6/11/77				64.21N	23.32W		.407	•537	_	6/11/77				57.25N	110.80W		.072	250	298
	6/11/77				67.38N	36.33W	-	398	•557		6/11/77				56.66N	111.33W		.087	.185	47
	6/11/77	1635	2:50	371	67.67N	37.96W		.414	•562		6/11/77				56.03N	111.82W		.166	-261	.64
	6/11/77	1640	_		67.94N	39.62W		.399	•563		6/11/77				54.84N	112.71W		.261	•315	.83
	6/11/77	1645	3:00	371	68.17N	41.34W		.425	•564	•75	6/11/77		7:25	410	53.63N	113.56W	-50.	.225	.240	.94
	6/11/77	1055	3:10	371	68.57N	44.83W	-45.	.410	•538	•76	6/11/77	2120	7:35	410	52.41N	114.37W	-51.	.271	•504	.54
	6/11/77	1705	3:20	389	68.88N	48.41W	-45.	.349	.429	•81	6/11/77	2130	7:45	410	51.20N	115.12W	-53.	.358	•496	.72
	6/11/77	1715	3:30	390	69.15N	52.01W	-46.	.378	•499	•76	6/11/77	2135	7:50	410	50.60N	115.48W	-51.	.328	•506	.65
	6/11/77	1725	3:40	389	69.18N	55.70W	-46.	.338	• 444	•76	6/11/77	2140	1:55	41 o	49.99N	115.84W	-52.	.322	·430	.75
>	6/11/77	1730	3:45	389	69.12N	57.54W	-46.	.292	• 455	•64	6/11/77	2145	8:00	410	49.39N	116.22W	-54.	.235	• 305	•77
ž	6/11/77	1740	3:55	389	68.91N	61.16W	-44.		•561		6/11/77	2150	8:05	410	48.82N	116.67W	-53.	.213	•307	•69
	6/11/77	1/45	4:00	389	68.79N	62.95W	-45.	.438	•573	•76	6/11/77	2200	8:15	410	47.67N	117.54W	-51.	•177	•364	.49
	6/11/77	1755	4:10	389	68.51N	66.43W	-42.	.448	•543	•83	6/11/77	2210	8:25	410	46.52N	118.38W	-52.	•356	•413	.86
	6/11/77	1815	4:30	390	68.09N	73.54W	-40.	.449	•561	•80	6/11/77	5555	8:37	410	45.02N	119.36W	-52.	.314	•373	.84
	6/11/77		4:40	390	67.78N	77.05W	-38•	.421	•524	•80	6/11/77				43.81N	120.12W		•261	•319	.8∠
	6/11/77	1830	4:45	390	67.59N	78.81W	-38•	.430	•536	.80	6/11/77				42.60N	120.83W		.249	•350	•7 <u>‡</u>
	6/11/77				67.39N	80.45W		.346	• 475	•73	6/11/77				41.41N	121.51W		•251	•316	.79
	6/11/77		4:55	390	67.17N	82.12W	-38•	.294	• 373	• 79	6/11/77				40.82N	121.82W		.216	•267	.81
	6/11/77		5:00	390	66.93N	83.79W	-38•	.287	•481	•60	6/11/77				40.20N	122.02W		.188	•261	.72
	6/11/77	1855	5:10	390	66.38N	87.05W	-38•	.309	•370	•84	6/11/77				39.64N	122.37W		.190	• 269	.71
											6/11/77	2312	9:27	410	39.01N	122.51W	-62.	.224	•269	.83



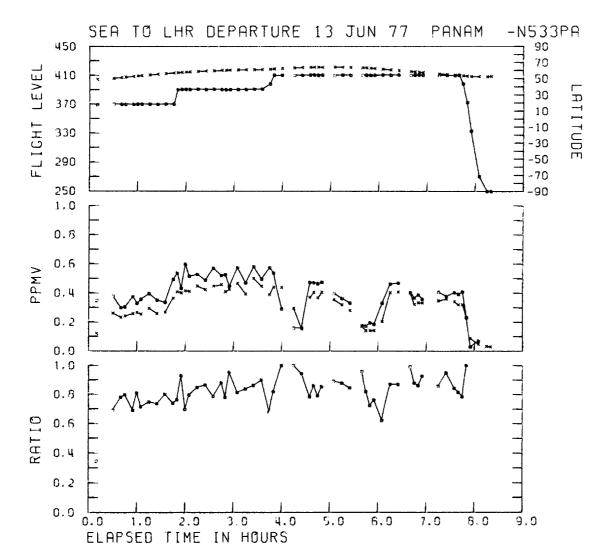
MAXIMUM VALUES: AMBIENT OZONE= .584 CABIN OZONE= .435 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .94 TOTAL OBS IN CABIN: 63
DATA SOURCE: GASP TAPE VLU10, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	ρPMV)	RATIO
			HR:MN				(C)	CARIN	AMB.				HK:MN				(C)	CABIN	AMB.	
	6/12/77	0211	0:20	370	38.58N	118.01W	-58•	.058	•115	•50	6/12/77	0553	4:0∠	391	58.24N	78.84W	-41.	.213	.302	.71
	6/12/77	0221	0:30	370	39.54N	116.64W	-58.	.059	•068		6/12/77	0603	4:12	391	59.07N	76.45W	-39.	.231	•311	.74
	6/12/77	0231	0:40	370	40.47N	115.24W	-59.	.031	•075		6/12/77	0623	4:32	391	60.63N	71.24W	-40.	.435	•523	.83
	6/12/77	0236	0:45	370	40.93N	114.52W	-58.	.061	•098		6/12/77	0628	4:37	389	61.00N	69.83W	-43.	.258	•530	.44
	6/12/77	0241	0:50	370	41.39N	113.79W	-58.	.078	•142	•55	6/12/77	0633	4:42	406	61.36N	60.35W	-40.	.280	•578	.48
	6/12/77	0246	0:55	370	41.84N	113.05W	-57.	.108	•220	• 49	6/12/77	0638	4:41	410	61.69N	66.91W	-42.	.272	.317	.86
	6/12/77	0256	1:05	370	42.53N	111.46W	-58.	• Ì47	•191	•77	6/12/77	0643	4:52	411	62.01N	65.43W	-43.	.199	.280	.71
	6/12/77	0311	1:20	381	43.35N	108.86W	-57.	•206	•352	•59	6/12/77	0653	5:02	410	62.60N	62.36W	-46.	.187	.247	.76
	6/12/77	0318A	1:27	390	43.99N	107.73W	<b>-</b> 56•	.256	•397	•64	6/12/71	0713	5:22	410	63.50N	55.95W	-49.	.193	.244	.79
	6/12/77	0323	1:32	391	44.44N	106.90W	-59.	.183	• 195	•94	6/12/77	0728	5:37	410	63.93N	51.05W	-53.	.110	.160	.69
	6/12/77	0328	1:37	390	44.90N	106.03W	-59.	•Î04	•179	•58	6/12/77	0733	5:42	410	63.98N	49.34W	-52.	.109	•163	.61
	6/12/77	0333	1:42	391	45.35N	105.16W	-60.	.080	•118	•68	6/12/77				63.85N	47.63W	-54.	.111	•164	•68
	6/12/77	0338	1:47	391	45.80N	104.25W	-61.	.085	• 097		6/12/77	0743	5:52	410	63.70N	46.00W	-54.	.094	•151	.62
	6/12/77	0343	1:52	391	46.25N	103.30W	-58.	.102	•200	•51	6/12/77	0748	5:57	410	63.54N	44.35W	-52.	.100	•181	.55
	6/12/77	0353	2:02	390	47.14N	101.36W	-55.	.214	• 377	•57	6/12/77	0803	6:12	410	62.98N	39.67W	-53.	.272	• 456	.60
	6/12/77	0403	2:12	391	47.94N	99.48W	<b>-</b> 55•	.240	•351	•68	6/12/77	0823	6:32	410	62.44N	33.48W	-48.	.007	∙53੪	.01
	6/12/77	0413	2:22	391	48.69N	97.58W	-51.	•267	• 353	•76	6/12/77	0828	6:37	410	62.26N	32.00W	-48.	•009	•512	.02
	6/12/77		2:32	391	49.64N	95.98W	-52•	.286	•453	•63	6/12/77				61.85N	29.03W		•409	•538	.76
	6/12/77	_			50.15N	95.21W			•259	•78	6/12/77				61.61N	27.63W		.382	•414	.92
	6/12/77				50.66N	94.41W	-52•	.208	•301	•69	6/12/77				61.10N	24.88W		.322	•401	.80
	6/12/77				51.16N	93.59W		.227	•385	•59	6/12/77				60.53N	22.22W	-	•338	•464	.73
_	6/12/77				51.63N	92.73W			•436		6/12/77				59.94N	19.75W		.240	• 336	.71
Ņ	6/12/77				52.09N	91.85W	_		•339	•78	6/12/77				59.31N	17.30W		•333	•429	.78
Š	6/12/77				53.02N	89.99W			• 349	•69	6/12/77				58.98N	16.10W		• 355	•437	.81
	6/12/77				54.02N	88.21W			•289	•69	6/12/77				58.64N	14.94W		.328	• 435	.75
	6/12/77				54.99N	86.35W		.337	•412	•82	6/12/77				58.30N	13.82W		• <b>3</b> 51	•427	•8≥
	6/12/77				55.95N	84.36W			•324		6/12/77	_		-	57.95N	16.74W		.313	•410	.76
	6/12/77				56.43N	83.32W		.250	• 322		6/12/77				56.31N	8.77W		.324	•380	.85
	6/12/77				56.89N	82.24W		.412	•584		6/12/77				55.29N	7.09W		•332	•486	.68
	6/12/77	-			57.35N	81.13W		.347	•496		6/12/77				54.37N	5.35W	-	.247	•298	.83
	6/12/77	0548	3:57	391	57.80N	80.00W	-41•	.355	•478	•74	6/12/77				53.60N	3.46W		.327	• 441	.74
											6/12/11	1038	8:47	383	53.14N	2.63₩	-46.	.274	• 445	.64



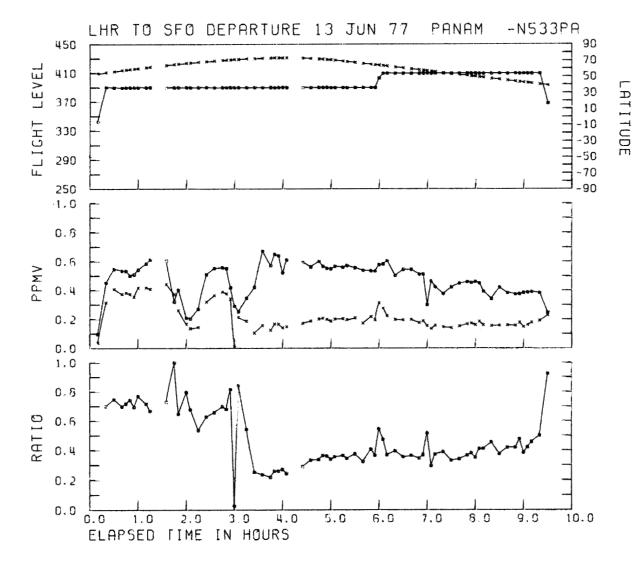
MAXIMUM VALUES: AMBIENT OZONE= .572 CABIN OZONE= .353 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .82 TOTAL OBS IN CABIN: 61 DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM HR:MN	fL	LAT	LONG		OZONE (		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
	6/12/77	1401	0:10	351	53.48N	1.81W	-49.	.224	•447	•50	6/12/77	1806	4:15 4	10	73.01N	70.29W	-39.	.105	•554	.198
	6/12/77	1411	0:20	390	54.80N	2.82W	-44.	.353	•429	•82	6/12/77	1816	4:25	10	72.66N	74.94W	-40.	.123	•554	.22B
	6/12/77	1421	0:30	390	56.10N	3.92W	-44.	·114	•435	• 26B	6/12/77	1825	4:34 4	10	72.21N	79.37W	-40.	.102	•494	.218
	6/12/77	1431	0:40	390	57.35N	5.21W	-44.	.110	•416	·268	6/12/77	1835	4:44	09	71.66N	83.59W	-41.	.109	•572	.19B
	6/12/77	1436	0:45	390	57.97N	5.89W	-43.	.076	•486	•168	6/12/77	1840	4:49 4	10	71.35N	85.61W	-41.	.124	•531	.23B
	6/12/77	1441	0:50	390	58.58N	6.63W	-43.	.085	•428	-208	6/12/77	1845	4:54 4	10	71.02N	87.57W	-43.	.085	•356	.24B
	6/12/77	1446	0:55	390	59.18N	7.39W	-45.	.105	•518	•20B	6/12/77	1850	4:59 4	109	70.67N	89.48W	-42.	.104	•509	.20B
	6/12/77	1451	1:00	390	59.76N	8.19W	-44.	.124	•456	.278	6/12/77	1856	5:05 4	109	70.30N	91.36W	-43.	.120	•564	•SIB
	6/12/77	1506	1:15	390	61.50N	10.67W	-46.	.087	• 456	.198	6/12/77	1906	5:15 4	09	69.51N	94.83W	-44.	.120	• 458	.268
	6/12/77	1516	1:25	390	62.63N	12.35W	-47•	.104	• 495	•21B	6/12/77	1915	5:24 4	109	68.66N	97.98W	-44.	.114	• 466	.24B
	6/12/77	1526	1:35	390	63.76N	14.18W	-49.	.084	•254	•33B	6/12/77		4 4		67.58N	100.39W		.109	• 499	.228
	6/12/77		_	-	64.30N	15.15W		.065	•241	•27B	6/12/77				66.47N	102.60W		.110	.370	.308
	6/12/77				64.86N	16.16W		.074	•373	.20B	6/12/77				65.90N	103.64W		.085	•288	*30B
	6/12/77		-		65.38N	17.18W		.115	•549	•218	6/12/77				65.33N	104.64W		.089	•408	.228
	6/12/77	-			66.82N	20.80W		.134	•518	• 268	6/12/77				64.74N	105.59W		.106	• 469	.23B
	6/12/77	-			67.73N	23.47W		•130	•570	•23B	6/12/77				64.16N	106.50W		.093	•272	.34B
	6/12/77	-			68.57N	26.30W		.136	•531	·26B	6/12/77	-			62.99N	108.20W		.134	•493	.278
	6/12/77				69.37N	29.34W		.125	•426		6/12/77				60.60N	111.22W		.172	•523	.33B
	6/12/77		_		69.72N	30.89W		.137	•497	·28B	6/12/77		•		59.50N	112.80W		.131	•548	.24B
	6/12/77				70.05N	32.53W		.121	•500	•248	6/12/77				58.98N	113.68W		.122	• 475	.26B
	6/12/77				70.37N	34.19W		.151	•412	•298	6/12/77				58.46N	114.52W		.120	•530	.238
	6/12/77				70.67N	35.89W	,	.122	•301	•41B	6/12/77				57.93N	115.33W		.129	•472	.278
A-227	6/12/77				71.20N	39.36W		.087	•192		6/12/77				57.40N	116.11W		.122	•499	.248
27	6/12/77				71.71N	43.12W		.053	• 232		6/12/77				55.79N	118.35W		.104	• 455	.23B
	6/12/77	-			72.53N	51.38W		.058	•251	•23B	6/12/77				54.60N	119.22W		.061	• 455	.13B
	6/12/77				72.68N	53.62W		.070	•293	•24B	6/12/77			***	53.27N	119.55W		.052	•129	.40B
	6/12/77	_	3:45	390	72.81N	55.95W		.087	• 385	-238	6/12/77				51.93N	119.87W		.064	•137	.47B
	6/12/77				72.91N	58.34W	-39.	.086	•430	»20B	6/12/77				51.25N	150.05M		•097	•408	.248
	6/12/77				72.99N	60.74W	-38•	.102	•438	.23B	6/12/77		4		50.57N	120.17W		.103	• 401	.26B
	6/12/77	1755	4:04	412	73.06N	65.44W	-39•	.233	•313	•74	6/12/77				49.90N	120.31W		.076	•296	.268
											6/12/77	5500	8:09 4	30	49.26N	120.54₩	-50.	.100	•380	.26



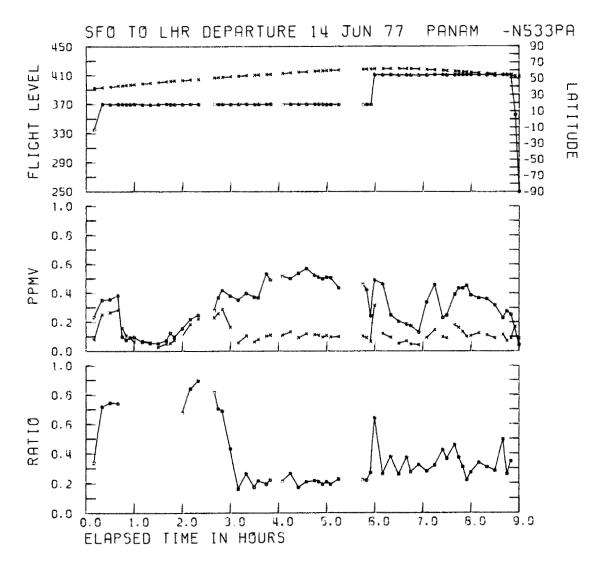
MAXIMUM VALUES: AMBIENT OZONE= .595 CABIN OZONE= .500 RATIO (LIMITED TO AMB. OZONE ABOVE U.1) = 1.86 TOTAL OBS IN CABIN: 58 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

						_														
MOZ	/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CABIN OZONE (		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
6/	/13/77	0132	0:10	369	48.65N	119.05W	-57.	.120	•348	•34	6/13/77	0547	4:25	410	63.57N	55.22W	-45.	.152	•161	.94
6/	/13/77	0152	0:30	370	50.13N	115.25W	-54.	.261	•378	•69	6/13/77	0557	4:35	410	63.86N	51.99W	-47.	.370	.472	.78
6,	/13/77	0202	0:40	370	51.20N	113.74W	-55.	.233	• 299	•78	6/13/77	0602	4:40	410	63.97N	50.40W	-47.	•405	.471	.86
6/	/13/77	0207	0:45	370	51.69N	112.87W	<b>~</b> 55•	.242	-304	-80	6/13/77	0607	4:45	410	64.04N	48.70W	-48.	.367	• 464	.79
6,	/13/77	0217	0:55	370	52.63N	111.09W	-53.	.258	•374	•69	6/13/77	0612	4:50	410	64.07N	46.99W	-50.	.405	.474	.85
6,	/13/77	0222	1:00	370	53.09N	110.18w	-54.	.266	•329	•81	6/13/77	0627	5:05	410	64.05N	41.93W	-49.	•355	•398	.89
6/	/13/77	0227	1:05	370	53.54N	109.25W	-54.	.255	•357	•71	6/13/77	0637	5:15	410	63.90N	38.58W	-50.	.319	•363	.88
6/	/13/77	0237	1:15	370	54.44N	107.29W	-54.	.295	• 395	•75	6/13/77	0647	5:25	410	63.68N	35.30W	-52.	.281	•332	.85
6,	/13/77	0247	1:25	370	55.29N	105.29W	-54.	.258	•351	•74	6/13/77	0702	5:40	410	63.39N	30.62W	-50.	.169	•176	.96
6/	/13/77	0257	1:35	370	56.12N	103.17W	-50.	·269	• 336	.80	6/13/77	0707	5:45	410	63.01N	29.24W	-51.	.141	•172	.82
6/	/13/77	0307	1:45	370	56.90N	100.94W	-50.	.364	•493	•74	6/13/77	0712	5:50	410	62.64N	27.86W	-50.	.141	•195	.72
6,	/13/77	0312	1:50	390	57.24N	99.75W	-46.	.409	•536	•76	6/13/77	0717	5:55	410	62.25N	26.53W	-51.	.141	.185	.76
6,	/13/77	0317	1:55	391	57.58N	98.54W	-47.	.401	•432	•93	6/13/77	0727	6:05	410	61.46N	24.03W	-50.	.205	•330	.64
6,	/13/77	0322	5:00	391	57.91N	97.31W	-45.	.415	•595	•70	6/13/77	0737	6:15	410	60.63N	21.66W	-48.	.403	•463	.87
6,	/13/77	0327	2:05	391	58.22N	96.07W	-45.	.411	•516	.80	6/13/77	0747	6:25	411	59.80N	19.38W	-47.	.408	•469	.87
6/	/13/77	0337	2:15	391	58.80N	93.54W	-44.	.448	•528	•85	6/13/77	2080	6:40	410	58.60N	16.00W	-47.	.402	•405	.99
6/	/13/77	0347	2:25	391	59.31N	90.84W	-43.	.423	•489	.87	6/13/77	0807	6:45	410	58.18N	14.92W	-46.	.323	.367	.88
6/	/13/77	0357	2:35	391	59.74N	88.05W	-43.	.448	•570	•79	6/13/77	0812	6:50	410	57.75N	13.87W	-46.	.334	•388	.86
6,	/13/77	0407	2:45	391	60.10N	85.25W	-42.	.458	•521	•88	6/13/77	0817	6:55	410	57.32N	12.86W	-46.	.333	•359	.93
6/	/13/77	0412	2:50	390	60.26N	83,80W	-42.	.410	•526	•78	6/13/77	0837	7:15	410	55.63N	8.93W	-46.	.349	•407	.86
6,	/13/77	0417	2:55	390	60.41N	82.29W	-42.	.425	•447	• 95	6/13/77	0847	7:25	410	54.93N	6.83W	-47.	.359	•378	.95
6/	/13/77	0427	3:05	391	60.65N	79.39W	-42.	•466	•573	.81	6/13/77	0857	7:35	410	54,23N	4.79W	-49.	.341	•404	.84
5 6/	/13/77	0437	3:15	391	60.84N	76.39W	-41.	.393	•469	-84	6/13/77	0905	7:40	410	53.82N	3.87W	-49.	.320	•392	.82
š 6,	/13/77	0447	3:25	391	60.97N	73.41W	-41.	.500	•580	•86	6/13/77	0907	7:45	398	53.43N	2.99W	-51.	.321	•409	.78
6/	/13/77	0457	3:35	391	61.03N	70.38W	-41•	•446	•496	•90	6/13/77	0912			52.98N	2.23W	-55.	.230	• 229	1.00
6,	/13/77	0507	3:45	398	61.59N	67.53W	-40.	.389	•573	•68	6/13/77	0917	7155	333	52.57N	1.56W	-53.	.087	.029	
6,	/13/77	0512	3:50	410	61.89N	66.13W	-40.	.440	•537	-82	6/13/77	0927	8:05	271	52.44N	1.45W	-36.	.048	•070	
6,	/13/77	0522	4:00	410	62.47N	63.20W	-41.	.438	•292	1.50	6/13/77	0937	8:15	231	52.39N	1.31W	-26.	.033		
6,	/13/77	0537	4:15	410	63.20N	58.52W	-43.	.296	•159	1.86	6/13/77	0942A	8:20	211	52.56N	į.51w	-21.	.029		



MAXIMUM VALUES: AMBIENT OZONE= .671 CABIN OZONE= .442 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.16 TOTAL OBS IN CABIN: 73 DATA SOURCE: GASP TAPE VL010, FILE 4

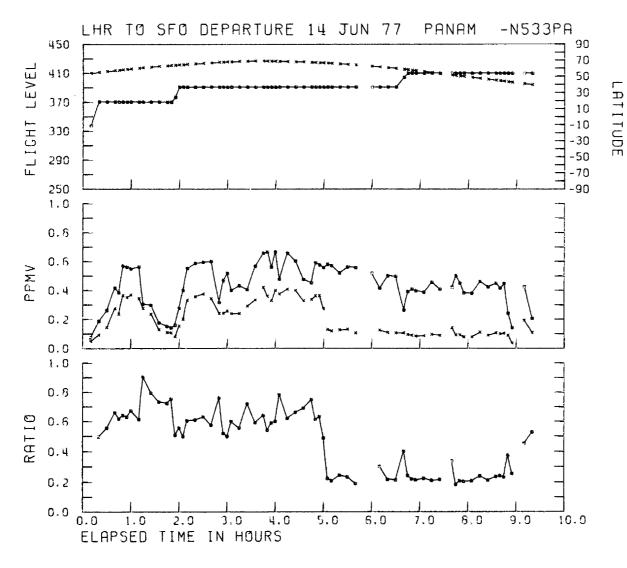
ı	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE (		RATIO	MOZNAZYR	GMT	ETIM HŘ!MN	FL	LAT	LONG	TEMP	OZONE (	¤PMV} AMB.	RATIO
	6/13/77	1315	0:10	747	53.54N	2.09W	-54-	.037	• 098		6/13/77	1805	5:00	390	70.60N	89.79W	-45.	.187	•550	.34B
	6/13/77			-	54.88N	2.93W		.315	•450	•70	6/13/77				70.07N	91.17W		.201	•566	368
	6/13/77				56.19N	4.01W			•547	•75	6/13/77		5:15	390	68.93N	93.62W	-46.	.204	•560	36B
	6/13/77				57.43N	5.30W		.373	•535	•70	6/13/77		5:20	390	68.34N	94.75W	-46.	.197	•572	.34B
	6/13/77		-		58.05N	5.99W		.383	•534	•72	6/13/77	1835	5:30	390	67.15N	96.85W	-45.	.209	•557	•38B
	6/13/77	1355	0:50	390	58.67N	6.75W	-46.	.372	•502	.74	6/13/77	1845	5:40	390	65.94N	98.74W	-46.	.174	•539	.32B
	6/13/77	1400	0:55	390	59.27N	7.53W	-46.	.354	•510	•69	6/13/77	1855	5:50	390	64.75N	100.58W	-47.	.218	•536	.41B
	6/13/77	1405	1:00	390	59.86N	8.34W	-46.	.417	•543	•77	6/13/77	1900	5:55	390	64.21N	101.59W	-49.	.195	•535	.36B
	6/13/77	1415	1:10	390	60.99N	9.98W	-47.	.418	•584	•72	6/13/77	1905	6:00	403	63.66N	102.56W	-46.	.314	•578	•54
	6./13/77	1420	1:15	390	61.56N	10.78W	-47.	.408	•612	•67	6/13/77		17 4	,	63.11N	103.50W		.276	•582	.47B
	6/13/77	1440	1:35	390	63.81N	14.28W	-46.	.442	•606	•73	6/13/77				62.55N	104.39W		.223	•605	.37B
	6/13/77	1450	1:45	390	64.88N	16.23W	-47.	.372	•351	1.16	6/13/77				61.44N	106.08W		.199	•504	•39B
	6/13/77	1455	1:50	390	65.41N	17.25W	-4B.	.261	•404	•65	6/13/77	_			60.29N	107.66W		.194	•546	.36B
	6/13/77				66.36N	19.56W			•210	•80	6/13/77				59.13N	109.05W		•19 <del>9</del>	•546	•36B
	6/13/77				66.80N	20.78W		.138	•204	•68	6/13/77	_		_	57.94N	110.23W		.177	•513	.358
	6/13/77				67.66N	23.30W		.145	•271	•54	6/13/77		19 49		57.35N	110.79W		.189	•513	.378
	6/13/77				68.50N	26.10W		.320	•510	•63	6/13/77				56.75N	111.33W		•155	•300	•528
	6/13/77				69.30N	29.12W		.363	•553	•66	6/13/77				56.14N	111.82W		.136	•463	.298
	6/13/77		_	_	70.01N	32.35W		•390	•558	•70	6/13/77				55.53N	112.28W		.158	•424	.37B
	6/13/77				70.32N	34.00W			•552	•68	6/13/77				54.31N	113.17W		.147	•377	.39B
	6/13/77		_		70.64N	35.77W		.341	•418	-82	6/13/77				53.09N	114.00W		.140	•422	.33B
_	6/13/77				70.93N	37.56W		.008	• 292	• 03	6/13/77				51.90N	114.77W		.153	• 449	.34B
بَرُّمُ	6/13/77				71.21N	39.48W		.213	• 253	•84	6/13/77				50.72N	115.49W		.168	•459	.378
≌	6/13/77				71.74N	43.34W			• 345	•54B	6/13/77				50.10N	115.85W		.173	•453	.388
	6/13/77		-		72.20N	47.56W			•421	•258	6/13/77				49.51N	116.20W		.162	•461	.358
	6/13/77				72.56N	51.92W			•671	•248	6/13/77				48.96N	116.65W		.185	• 450	.41B
	6/13/77				72.82N	56.49W			•572		6/13/77				48.40N 47.25N	117.08W		.162 .156	•394 •342	.418 .468
	6/13/77		_		72.92N	58.85W			•649		6/13/77				46.09N	118.72W		.158	•421	.38B
	6/13/77				72.99N	61.23W			•640	•26B	6/13/77				44.96N	119.46W		.161	• 384	.30B
	6/13/77				73.03N	63.62W			•522 •611	•27B •24B	6/13/77 6/13/77				43.81N	120.18W		.157	• 374	.428
	6/13/77				73.05N	66.03W				• 24B	6/13/77				43.23N	120.13W		-	•376	488
	6/13/77 6/13/77	<b>-</b> , -			72.61N 72.15N	75.45W 79.84W			•594 •562		6/13/77				42.66N	120.55W			•385	.38B
	6/13/77				71.60N	19.84W	-		•601	•33B •34B	6/13/77				42.08N	121.21W		.163	•387	.428
	6/13/77				71.29N	85.99W	_		•566		6/13/77				41.50N	121.55W			•391	.468
	6/13/77				70.96N	87.92W			•553		6/13/77				40.32N	122.20W			•383	508
	0/13/11	1000	4.55	370	10.30N	014721	-43•		• 553	• 500	6/13/77				39.10N	122.64W			•248	.92
											0, 13, 11		,	, ,	->-	* ***		• L L )	<b>▼</b> L + O	• /



MAXIMUM VALUES: AMBIENT OZONE= .570 CABIN OZONE= .314 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .89 TOTAL OBS IN CABIN: 64

DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

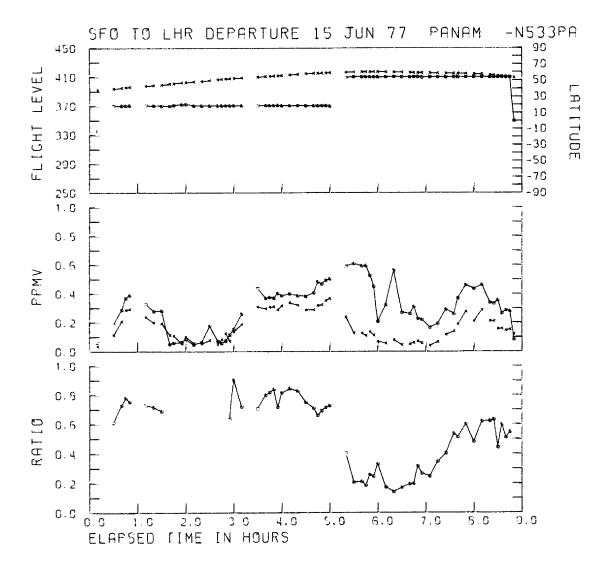
,	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIC	MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE(		RATIO
	6/14/77				38.26N	120.03W		.079	•234		6/14/77			_	59.18N	64.04W		.107	•510	.218
	6/14/77	0148	0:20	370	38.86N	118.39W		.251	• 350	•72	6/14/77	-			59.47N	62.73W		.096	•499	.19B
	6/14/77	0158	0:30	370	39.82N	116.90W	-54.	.265	• 356	•74	6/14/77				59.74N	61.38W		.106	•509	.51B
	6/14/77	0208	0:40	370	40.76N	115.37W	<del>-56</del> •	.283	•382	.74	6/14/77	0633	5:05	370	60.00N	60.01W	-42.	.097	•506	.19B
	6/14/77	0213	0:45	370	41.23N	114.57W	-56.	.159	•098		6/14/77	0643	5:15	370	60.38N	5/.08W	-41.	.099	•437	.238
	6/14/77	0218	0:50	370	41.70N	113.75W	-57•	.106	•077		6/14/77		5:45	370	61.24N	48.20W	-49.	.102	•460	.22B
	6/14/77	0223	0:55	370	42.17N	112.91W	-56.	.090	•093		6/14/77	0718	5:50	370	61.42N	46.69W	-51.	.092	•423	.22B
	6/14/77	0228	1:00	370	42.63N	112.08W	-57.	.064	• 096		6/14/77				61.58N	45.14W		.065	•242	.27B
	6/14/77	0238	1:10	369	43.50N	110.40W	-57.	.070	•063		6/14/77	0728	6:00	410	61.73N	43.60W	-52.	.314	•490	.64
	6/14/77		_	-	44.37N	108.63W	-56•	.059	•053		6/14/77		6:10	410	61.97N	40.53W	-52.	.121	•463	.268
	6/14/77		1:30	370	45.19N	106.86W	-57•	.027	• 052		6/14/77		6:20	410	62.07N	37.43W	-54.	.094	•249	.38B
	6/14/77		1:40	370	46.16N	105.32W	-56.	.050	•072		6/14/77		6:30	410	62.09N	34.24W	-56.	.053	•205	.26B
	6/14/77		_		46.70N	104.53W	_	.053	•124	•43	6/14/77				62.03N	31.11W		.069	•185	.37B
	6/14/77	-	_		47.09N	103.55W		.073	• 096		6/14/77	-	-		61.94N	29.61W		.048	•175	.27B
	6/14/77	-		-	47.72N	101.45W		.105	• 155		6/14/77				61.46N	26.77W		.042	•130	•32B
	6/14/77				48.30N	99.36W		.183	•218		6/14/77				60.91N	23.96W		.094	•337	.28B
	6/14/77				48.84N	97.25W		.221	•247		6/14/77				60.33N	21.38W		.146	• 457	.34B
	6/14/77			-	50.81N	94.18W		.229	•281	•81	6/14/77	-			59.74N	18.96W		.098	•231	.42B
	6/14/77	_			51.24N	93.29W		.259	• 368	•70	6/14/77				59.43N	17.74W		.090	•247	.368
	6/14/77				51.59N	92.28W		.288	•418	•69	6/14/77				58.77N	15.36W		.179	•391	•46B
	6/14/77				52.27N	90.19W		.164	•380	•43B	6/14/77		1 - 4	_	58.42N	14.22W		.162	•435	.37B
_	6/14/77				52.92N	88.02W		.057	• 352		6/14/77				58.07N	13.11W		.134	• 435	.318
Š	6/14/77	-			53.53N	85.78W		.104	• 398	•26B	6/14/77				57.71N	12.02W		.100	•452	•55B
ಜ	6/14/77		_		54.11N	83.45W		.064	• 372		6/14/77				57.34N	10.95W		.105	•386	.27B
	6/14/77				54.39N	82.24W	-	.079	• 367	•55B	6/14/77				56.68N	8.76W		.124	•367	•34B
	6/14/77	-			54.90N	79.81W		.103	•533	•19 <del>B</del>	6/14/77		T. D		56.05N	6.58W		.111	•361	•31B
	6/14/77	-			55.14N	78.55W		.109	• 493	•22B	6/14/77				55.51N	4.28W		.090	•318	.28B
	6/14/77	-			56.23N	75.18W		.110	•517	•21B	6/14/77				54.38N	3.27W		.114	•230	.50B
	6/14/77				56.93N	72.80W		.132	•500	•26B	6/14/77				53.81N	2.80W		.072	•276	.26B
	6/14/77			-	57.58N	70.33W	_	.092	•536	•178	6/14/77				53.24N	2.34W		.088	•253	.35B
	6/14/77	-			58.25N	67.86W		.119	•570	-218	6/14/77				52.66N	1.96W		.168		
	6/14/77	0613	4:45	370	58.89N	65.33W	-41•	.113	•523	•228	6/14/77	1028A	9:00	231	52.12N	1.60W	-24.	.089	•043	



MAXIMUM VALUES: AMBIENT OZONE= .665 CABIN OZONE= .421 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .90 TOTAL OBS IN CABIN: 69 DATA SOURCE: GASP TAPE VL010, FILE 4

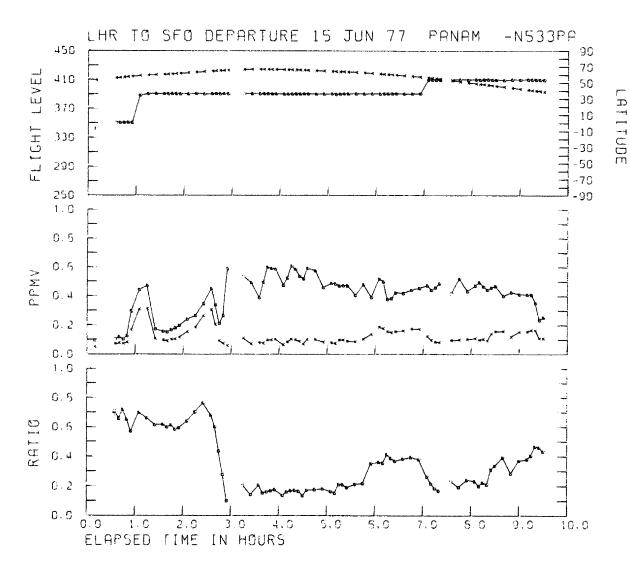
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CABIN		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	aPMV)	OITAR
	6/14/77	1400	0:10	338	54.09N	2.53W	-52.	.050	• 075		6/14/77	1825	4:15	391	67.83N	76.36W	-41.	.328	•475	.69
	6/14/77	1410			55.26N	- 3.89W		.093	•187	•50	6/14/77				67.44N	79.92W		.338	•451	.75
	6/14/77	1420			56.34N	5.38W		.145	•262	•55	6/14/77				67.22N	81.67W		•362	•590	.61
	6/14/77				57.36N	7.15w		.275	•417	•66	6/14/77				66.98N	83.38W		.364	•576	.63
	6/14/77	1435			57.89N	8.04W		.237	•384	•62	6/14/77			_	66.72N	85.03W		.272	•557	.49B
	6/14/77	1440			58.42N	8.94W		.365	•569	•64	6/14/77				66.45N	86.64W		.130	•580	228
	6/14/77	1445			58.92N	9.84W		.353	•561	•63	6/14/77				66.15N	88.21W		.119	•571	.21B
	6/14/77	1450			59.40N	10.76W		.370	•550	•67	6/14/77				65.51N	91.25W		.127	•520	248
	6/14/77				60.33N	12.67W		.345	•563	•61	6/14/77				64.82N	94.14W		.131	•562	.238
	6/14/77	1505	_		60.78N	13.67W		.276	• 306	•90	6/14/77				04.08N	96.79W		.106	•557	.198
	6/14/77	1515	1:25	370	61.65N	15.75W		.237	. 298	.80	6/14/77				62.44N	101.52W		• 1 0 0	•519	• 1 > 15
	6/14/77	1525	1:35	370	62.46N	17.90W		.129	•176	•73	6/14/77				61.60N	103.77W		.125	•415	.30B
	6/14/77	1535	1:45	370	63.20N	20.06W		.110	•154	•72	6/14/77			_	60.74N	105.86W		.109	•501	.22B
	6/14/77	1540	1:50	370	63.56N	21.19W	-55.	.107	•142	• 75	6/14/77			_	59.85N	107.82W		.106	•497	.218
	6/14/77	1545			63.91N	22.35W		.081	•160	•51	6/14/77		,		58.78N	109.28W		.106	•264	.40B
	6/14/77	1550	2:00	391	64.27N	23.51W		.154	•278	•55	6/14/77				58.19N	109.86W		.095	•391	248
	6/14/77	1555	2:05	391	64.63N	24.71W	-54.	.200	• 401	.50	6/14/77				57.60N	110.42W		.090	•409	.22B
	6/14/77	1600	2:10	391	64.99N	25.97W	-54.	.333	•551	•60	6/14/77				57.01N	110.96W		.085	•397	218
	6/14/77	1610	2:20	391	65.68N	28.63W	-51.	.358	•587	•61	6/14/77				55.79N	111.95w		.087	•387	228
	6/14/77	1620	2:30	391	66.34N	31.40W	-49.	.375	•595	•63	6/14/77	2105	· -		54.56N	112.84W		.096	• 455	.218
	6/14/77	1630	2:40	391	66.96N	34.22W	-46.	.344	•600	•57	6/14/77		1:25	410	53.34N	113.68W		.089	•408	.24B
	6/14/77	1640	2:50	391	67.54N	37.29W	-44.	.241	•317	•76	6/14/77	2130			51.50N	114.86W		.142	•421	.34B
Š	6/14/77	1645	2:55	391	67.82N	38.92W	-44.	.242	•467	•52	6/14/77	2135			50.89N	115.23W		.092	•501	188
မ္ဘ	6/14/77		3:00	391	68.07N	40.59W	-44.	.259	•519	•50	6/14/77	2140	7:50	410	50.28N	115.58w	-49.	.093	.449	.21B
	6/14/77	1655	3:05	391	68.29N	42.32W	-43.	.240	•401	•60	6/14/77	2145	7:55	410	49.65N	115.94W	-48.	.078	•382	.20B
	6/14/77		3:15	391	68.67N	45.94W	-41.	. 240	•433	• 55	6/14/77	2155	8:05	410	48.47N	116.83W	-50.	.079	•380	.218
	6/14/77	1715	3:25	391	68.97N	49.68W	-40.	.292	•406	.72	6/14/77	2205	8:15	410	47.30N	117.68W	-50:	.110	•460	.24B
	6/14/77	1725	3:35	391	69.24N	53.57W	-40.	.335	•567	•59	6/14/77	2215	8:25	410	46.13N	118.48W	-51.	.090	.424	218
	6/14/77	_	3:45	391	69.13N	57.46W	-40.	.421	•657	•64	6/14/77	2225	8:35	410	44.96N	119.25W	-49.	.106	• 449	.24B
	6/14/77		3:50	391	69.04N	59.38W	-39.	.359	•665	• 54	6/14/77	2230	8:40	410	44.38N	114.62W	-49.	.100	•415	.24B
	6/14/77	- ,			68.91N	61.28W	-39•	.330	•561	•59	6/14/77	2235	8:45	4 Í 0	43.79N	119.99W	-50.	.104	• 446	238
	6/14/77	_ ,			68.78N	63.16W	-39.	.399	•665	•60	6/14/77	2240	8:50	410	43.21N	120.34W	-49.	.090	.241	.37B
	6/14/77	_			68.64N	65.03W	-39.	.374	•477	•78	6/14/77	2245	8:55	410	42.62N	120.69W	-50.	.036	•141	.26B
	6/14/77	_			68.38N	68.83W	-39•	.408	•657	•62	6/14/77				40.86N	121.70W	-52.	.193	•426	45
	6/14/77	1815	4:25	391	68.15N	72.66W	-40.	.399	•603	•66	6/14/77	2310	9:20	410	39.64N	122.26W	-51.	.108	.205	.53

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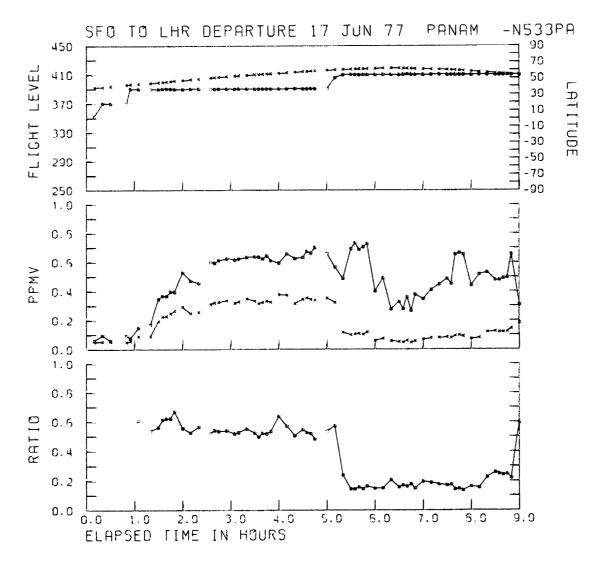
MAXIMUM VALUES: AMBIENT OZUNE= .609 CABIN OZUNE= .366 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .90 TOTAL OBS IN CABIN: 64
DATA SOURCE: GASP TAPE VLOID, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OSONE(		RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
6/15/77	0148	0:10	336	38.33N	119.54W	-49.	.037	•064		6/15/77	0628	4:50	371	58.64N	64.02W	-42.	.324	•468	.69
6/15/77				39.81N	116.24W		.115	•188	•61	6/15/77	0633	4:55	371	58.78N	62.62W	-43.	.353	•494	.71
6/15/77	0218	0:40	370	40.84N	114.66W	-53.	.210	-288	•73	6/15/77	0638	5:00	370	58.91N	61.20W	-43.	.366	•504	.73
6/15/77	0223	0:45	370	41.33N	113.89W	-55.	.288	• 369	•78	6/15/77	0658	5:40	409	59.54N	55.57W	-42.	.239	•592	.40B
6/15/77	0228	0:50	371	41.81N	113.10W	-53.	.294	•390	•75	6/15/77	0708	5:30	410	59.8IN	52.66W	-43.	.126	•609	.218
6/15/77	0248	1:10	371	43.14N	109.47w	-50.	.240	•329	•73	6/15/77	0718	5:40	410	60.01N	49.81W	-44.	.126	•593	.218
6/15/77	0258	1:20	371	43.69N	107.57W	-53•	.200	•279	•72	6/15/77	0723	5:45	410	60.05N	48.32W	-44.	.110	•595	.18B
6/15/77	80E0	1:30	370	44.50N	105.83W	-52.	.195	•283	•69	6/15/77	0728	5:50	410	60.08N	46.82W	-43.	.136	•527	.26B
6/15/77	0318	1:40	370	45.58N	104.48W	-54.	.115	• 052		6/15/77				60.09N	45.38W	-43.	.111	•451	.25B
6/15/77	0323	1:45	371	46.10N	103.79W	-54.	.110	.061		6/15/77	0738	6:00	410	60.09N	43.92W	-44.	.068	.207	.338
6/15/77	0333	1:55	372	47.09N	102.19W	-56•	.056	• 066		6/15/77		9:To	410	60.03N	40.98W	-46.	.056	•323	.17B
6/15/77				47.47N	101.17W	<del>-</del> 55•	.103	• 085		6/15/77				59.87N	38.12W	-48.	.080	•564	•14B
6/15/77		2:10	371	48.20N	99.14W	-56.	.058	• 049		6/15/77				59.64N	35.34W	<b>-50.</b>	.046	•270	.178
6/15/77				48.88N	97.08W		.056	• 065		6/15/77				59.34N	32.59W		.051	•261	.208
6/15/77				49.99N	95.48W		.078	•175	<ul><li>45</li></ul>	6/15/77	-			59.17N	31.26W		.061	•310	.20B
6/15/77		_		50.98N	93.91W		.052	• 075		6/15/77				59.00N	29.95W		.072	•228	.328
6/15/77				51.40N	92.83W		.084	• 058		6/15/77				58.91N	58.61M		.059	.521	.278
6/15/77				51.76N	91.77W		.125	• 075		6/15/77				58.70N	25.98W	-	.041	•166	• 52B
6/15/77				52.12N	90.69W		.073	•115	•63	6/15/77				58.44N	23.43W		.067	•193	.358
6/15/77				52.46N	89.59W		.139	•154	•90	6/15/77				58.24N	20.93W		.117	.291	.40B
6/15/77	-			53.09N	87.43W	~ ~	.187	•260	•72	6/15/77				58.07N	18.44W		.140	• 261	.54B
6/15/77				54.21N	83.01W		•309	•437	•71	6/15/77				57.99N	17.23W		.189	• 369	•5 <u>1</u>
6/15/77		-		54.71N	80.74W		.296	•370	.80	6/15/77				57.77N	14.77W		.277	•46]	.60
6/15/77		_		54.94N	79.59W		.307	• 375	•82	6/15/77				57,51N	12.33W		.210	•436	.46
6/15/77				55.16N	78.42W		.310	• 369	•84	6/15/77				57.19N	9.88W		.287	•463	•62
6/15/77				55.43N	77.31W		.289	•403	•72	6/15/77				56.34N	7.97W		.211	• 339	.62
6/15/77			_	55.80N	76.25W		.316	• 387	•85	6/15/77				55.81N	7.15W		.210	•332	.63
6/15/77			-	56.51N	74.04W		• 338	• 400	• 85	6/15/77				55.29N	6.32W		.157	• 355	.44
6/15/77	-			57.19N	71.76W		.320	• 386	•83	6/15/77	_			54.76N	5.57W		.158	• 265	.60
6/15/77			_	57.85N	69.36W		.287	•382	• 75	6/15/77				54.31N	4.75W		.146	•286	•51
6/15/77				58.33N	66.75W		.288	• 406	•71	6/15/77				53.92N	3.80W		.153	.280	•55
6/15/77	0623	4:45	371	58.49N	65.39W	-42•	.319	•483	•66	6/15/77	1031A	8:53	350	53.24N	2.29W	-55.	.121	.083	



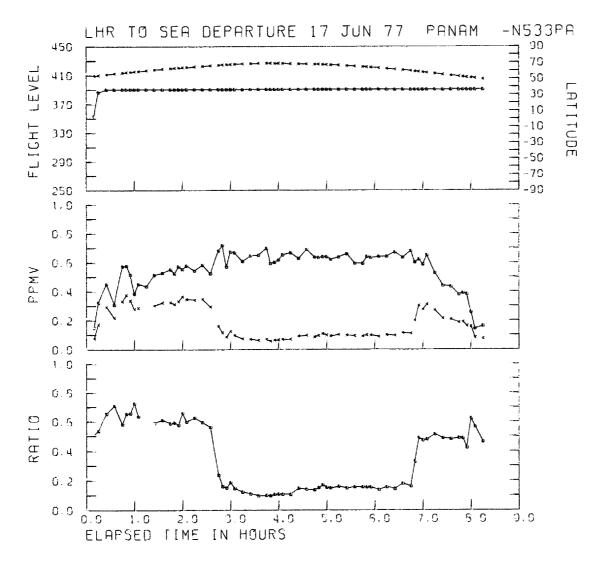
MAXIMUM VALUES: AMBIENT OZONE= .609 CABIN OZONE= .313 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .76 TOTAL OBS IN CABIN: 75 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMB.	RATIO	MO/DA/YR	GMT	ETIM HŘÍMN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PMV)	RATIO
6/15/77	1403	0:10	343	53.45N	1.87W	-63.	.050	•097		6/15/77	1848	4:55	390	64.85N	79.72W	-44.	.084	•460	.188
6/15/77				56.23N	5.24W		.073	•103	•71	6/15/77			_	64.33N	82.66W		.080	•488	168
6/15/77	-			56.75N	6.04W		.078	•119	•66	6/15/77		and the second second		64.12N	84.16W		.074	•484	158
6/15/77				57.23N	6.88W		.074	•103	•72	6/15/77				63.97N	85.66W		099	•471	218
6/15/77		-		57.69N	7.71W		082	•126	•65	6/15/77				63.80N	87.14W		.099	•473	218
6/15/77				58.18N	8.54W		.168	295	•57	6/15/77				63.62N	88.60W		.090	•472	19B
6/15/77	_			59.10N	10.36W	- ,	.309	•442	•70	6/15/77			_	63.19N	91.41W		.086	•406	218
6/15/77				59.67N	12.84W		.313	•473	•66	6/15/77		_		62.61N	94.06W		.104	•479	.228
6/15/77		-		60.20N	15.41W		.107	•174	.61	6/15/77		_		61.98N	96.57W		.137	•391	.358
6/15/77			-	60.68N	18.03W		.097	•157	•62	6/15/77				61.31N	98.97W		.188	•520	36B
6/15/77				60.90N	19.35W		.091	•152	•60	6/15/77	_			60.96N	100.13W		.177	•499	35B
6/15/77		_		61.21N	20.57W		.103	•168	•61	6/15/77				60.61N	101.27W		.156	•378	418
6/15/77	_			61.61N	21.70W		.105	•180	•58	6/15/77				60.25N	102.39W		.149	•384	39B
6/15/77	1548			62.00N	22.88W	-57.	.117	•197	•59	6/15/77		** - *		59.88N	103.47W		.156	•423	.378
6/15/77	1558			62.75N	25.29W	-58.	.154	•241	•64	6/15/77		6:35	390	59.11N	105.61W	-47.	.161	.420	388
6/15/77	1608	2:15	391	63.45N	27.79W	-55.	.186	•265	•70	6/15/77	2038	6:45	391	58.30N	107.64W	-46.	.174	•442	39B
6/15/77	1618	2:25	390	64.10N	30.41W	-48	.264	•346	•76	6/15/77		6:55	<b>391</b>	57.46N	109.59W	-46.	.173	•456	388
6/15/77	1628	2:35	391	64.75N	33.22W	-45.	.307	•451	•68	6/15/77	2058	7:05	410	56.57N	111.43W	-46.	.124	.474	.26B
6/15/77	1633	2:40	391	65.05N	34.65W	-44.	.203	•338	•60	6/15/77	2103	7:10	410	55.95N	111.89W	-46.	.096	•442	228
6/15/77	1638	2:45	391	65.34N	36.14W	-42.	.092	.211	•44B	6/15/77	2108	7:15	410	55.33N	112.36W	-46.	.085	•459	.198
6/15/77	1643	2:50	391	65.61N	37.66W	-41.	.074	.267	•288	6/15/77	2113	7:20	410	54.71N	112.81W	-46.	.082	•487	.17B
6/15/77	1648	2:55	391	65.88N	39.21W	-41.	.059	•588	•10B	6/15/77	2128	7:35	410	52.85N	114.09W	-47.	.096	•418	.23B
6/15/77	1708	3:15	391	66.66N	45.77W	-40.	.110	•537	.20B	6/15/77	2138	7:45	4 Î O	51.60N	114.88W	-46.	.100	•519	.19B
6/15/77	1718	3:25	391	66.95N	49.23W	-40.	.070	•491	•14B	6/15/77	2148	7:55	410	50.37N	115.62W	-48.	.104	•434	.248
6/15/77	1728	3:35	391	66.96N	52.68W	-39.	.080	•389	•21B	6/15/77	2158	8:05	410	49.15N	116.41W	-50.	.109	•472	.23B
6/15/77	1733	3:40	391	66.93N	54.46W	-39•	.076	•494	•158	6/15/77	2203	ន៖ ហេ	410	48.57N	116.87W	-49.	.099	•494	.20B
6/15/77	1738	3:45	391	66.89N	56.24W	-39.	.097	•600	•16B	6/15/77	8025			47.99N	117.30W	-49.	.104	•467	.228
6/15/77	1/43	3:50	391	66.82N	58.02W	-39•	.100	•591	•17B	6/15/77				47.42N	117.74W	-49.	.093	•443	.21B
6/15/77	1748	3:55	391	66.74N	59.79W	-39.	• İ 04	•587	•188	6/15/77	2218			46.83N	118.16W	-50.	.142	• 459	:31B
6/15/77	1758	4:05	390	66.58N	63.34W	-40.	.065	• 474	•148	6/15/77	2223	8:30	410	46.24N	118.56W	-51.	.158	•469	.34B
6/15/77	1803A	4:10	390	66.48N	65.27W	-40.	.085	•525	•16B	6/15/77		8:40	409	45.05N	119.37W	-53.	.158	•402	.39B
6/15/77	18084	4:15	390	66.36N	67.01W	-41.	.104	•609	•17B	6/15/77		8:50	410	43.82N	120.02W	-51.	.121	•427	.288
6/15/77	1813A	4:20	391	66.23N	68.72W	-40.	.101	•585	•178	6/15/77				42.54N	120.49W	-54.	.153	•412	.378
6/15/77	1818A	4:25	390	66.08N	70.40W		•089	•538	•17 <del>8</del>	6/15/77	_			41.38N	121.24W		.156	•410	.38B
6/15/77				65.91N	72.02W	-41•	.070	•519	•14B	6/15/77				40.81N	121.59W		.166	-410	.40B
6/15/77		4:35	391	65.75N	73.44W		.102	•592	•17B	6/15/77				40.30N	122.04W		.164	• 353	.46B
6/15/77	1838	4:45	390	65.33N	76.63W	-43•	.102	•575	.188	6/15/77				39.71N	122.35W		.108	•235	.46B
										6/15/77	2323	9:30	410	39.08N	122.48W	-60.	.110	•254	.43



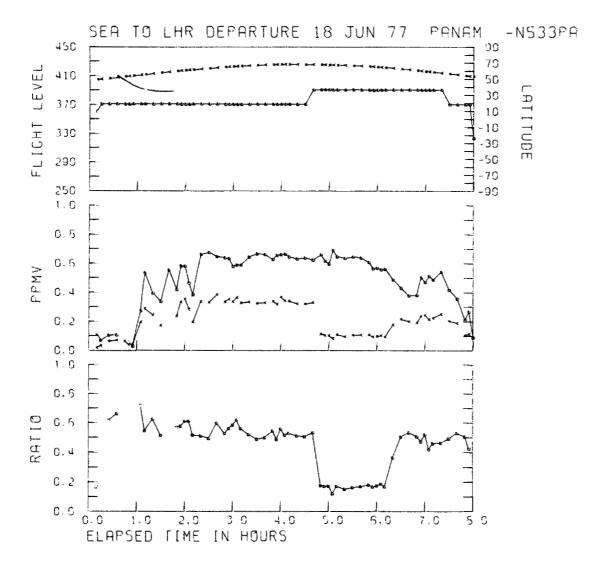
MAXIMUM VALUES: AMBIENT OZONE= .730 CABIN OZONE= .378 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .67 TOTAL OBS IN CABIN: 67 DATA SOURCE: GASP TAPE VL010, FILE 4

,	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP (C)	OZONE ( CABIN		RAT10
	6/17/77	0237	0:12	353	38.38N	119.70W	-52•	.052	•061		6/17/77	0712	4:47	390	58.53N	66.78W	-46.	.338	•701	.46
	6/17/77		-		38.63N	117.87W		.053	.095		6/17/77		5:02	391	59.38N	63.13W	-44.	.353	•660	.53
	6/17/77	0257	0:32	370	39.65N	116.44W	-55.	.054	• 059		6/17/77	0737	5:12	406	59.89N	60.61W	-44.	.323	•566	.57
	6/17/77	0317	0:52	370	41.57N	113.50W	-56.	.050	•093		6/17/77	0747	5:22	410	60.28N	57.90W	-43.	.116	•487	.24B
	6/17/77	0322	0:57	391	42.04N	112.72W	-61.	.056	•077		6/17/77	0757	5:32	410	60.59N	55.13W	-44.	.099	•690	.14B
	6/17/77	0332	1:07	390	42.73N	110.83W	-61.	.090	•148	•61	6/17/77	2080	5:37	410	60.72N	53.71W	-44.	.104	•730	.148
	6/17/77	0347	1:22	390	43.60N	107.88W	-59.	.090	•168	•54	6/17/77	0807	5:42	410	60.84N	52.25W	-45.	.107	•686	.16B
	6/17/77	0357	1:32	390	44.28N	106.07W	-57.	.194	• 346	•56	6/17/77	0812	5:47	410	60.95N	50.75W	-46.	.102	•705	.14B
	6/17/77	0402	1:37	391	44.83N	105.42W	-56•	.225	•367	•61	6/17/77	0817	5:52	410	61.10N	49.29W	-46.	.118	•726	.16B
	6/17/77	0407	1:42	391	45.38N	104.74W	-58•	.228	• 367	•62	6/17/77	0827	6:02	410	61.46N	46.33W	-45.	.059	•399	.15B
	6/17/77	0412	1:47	390	45.91N	104.04W	~57•	.247	•397	•62	6/17/77	0837	6:12	410	61.75N	43.36W	-46.	.073	•489	.15B
	6/17/77	0417	1:52	390	46.47N	103.30W	<b>~58</b> •	.265	• 396	•67	6/17/77	0847	6:22	410	61.98N	40.29W	-47.	.057	•276	.218
	6/17/77	0427	2:02	390	47.33N	101.54W	-50.	.293	•528	•55	6/17/77		6:32	409	61.80N	37.25W	-48.	.051	•326	.168
	6/17/77	0437	2:12	391	48.04N	99.60W	~55•	.248	•472	•53	6/17/77	0902	6:37	410	61.67N	35.79W	-49.	.047	.277	.17B
	6/17/77	0447	2:22	390	48.70N	97.63W	<del>-</del> 55•	•256	• 455	•56	6/17/77				61.53N	34.35W		.058	• 359	.168
	6/17/77	0502	2:37	390	50.14N	95.23W	-52•	.311	•599	•52	6/17/77		6:47	410	61.37N	32.91W		.047	• 265	*19B
	6/17/77	0507	2:42	390	50.66N	94.42W	~52•	.321	•594	•54	6/17/77				61.20N	31.49W		•056	•377	.15B
	6/17/77	_			51.14N	93.57W	<b>~</b> 50∙	.326	•611	•53	6/17/77				60.91N	28.65W		.068	•347	
	6/17/77				51.83N	91.55W		•336	•624		6/17/77				60.68N	25.86W		.077	• 409	.198
	6/17/77				52.51N	89.43W		.319	•616		6/17/77		and the second		60.40N	23.15W		.079	• 447	
	6/17/77		_		52.82N	88.37W			•623	•53	6/17/77			_	60.07N	20.48W		.083	• 486	-
_	6/17/77				53.43N	86.17W		.349	•634	_	6/17/77				59.81N	19.22W		.079	•451	.188
į,	6/17/77	-	_		54.01N	83.88W		.333	•637	•52	6/17/77				59.50N	18.01M		.093	•653	.148
<del>2</del>	6/17/77				54.28N	82.73W		.316	•636	•50	6/17/77				59.18N	16.81W		.097	•665	.15B
	6/17/77				54.53N	81.58W		.325	•623	•52	6/17/77				58.85N	15.64W		.089	•655	.148
	6/17/77				54.78N	80.42W		.333	•643	•52	6/17/77				58.15N	13.35₩		.072	•441	.16B
	6/17/77	-			55.01N	79.24W		.325	•611	•53	6/17/77				57.44N	11.22W		.080	•517	.15B
	6/17/77				55.56N	76.96W		.378	•594		6/17/77				56.63N	9.32W		.120	•531	.238
	6/17/77				56.29N	74.79W		.374	•657	•57	6/17/77				55.65N	7.66W		.124	•479	.26B
	6/17/77				56.95N	72.59W		.316	•626	•50	6/17/77				55.16N	6.88W		.120	•479	•
	6/17/77				57.52N	70.26W		.345	•633	_	6/17/77				54.64N	6.16W		.119	•491	.24B
	6/17/77				57.81N	69.09W		.354	•674		6/17/77				54.23N	5.28W		.123	•497	
	6/17/77	0/07	4:42	391	58.24N	67.94W	-46.	.343	•662	•52	6/17/77				53.91N	4.29W		.144	•656	
											6/17/77	1127	9:02	410	52.95N	2.68W	-53.	.183	.307	.60



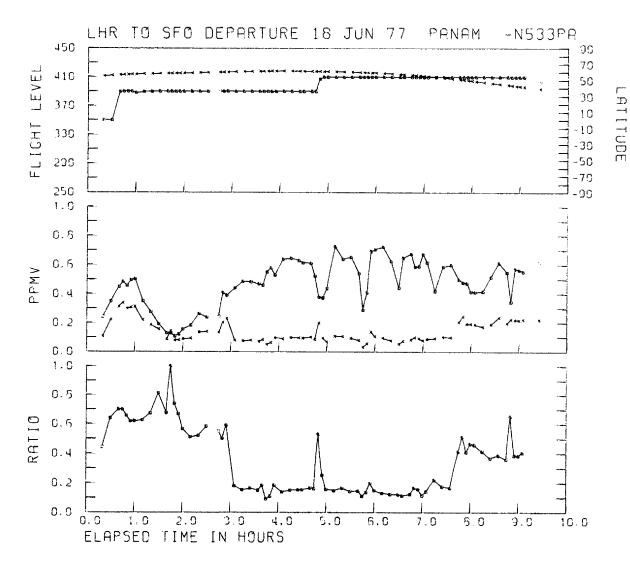
MAXIMUM VALUES: AMBIENT OZONE= .718 CABIN OZONE= .376 RATIO (LIMITED TO AMB. OZONE ABOVE U.1)= .72 TOTAL OBS IN CABIN: 64
DATA SOURCE: GASP TAPE VL010, FILE 4

6/17/77 1422 0110 354 \$3.51N		MU/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO	MOZĐAZYR	GMT		FL	LAT	LONG		OZONE (		RATIO
6/17/77 1827 0:15 386 5=100 2:548 -55. 172 322 533 6/17/77 1827 4:15 391 68:600 65.588 -44. 071 667 118 6/17/77 1837 4:25 391 68:600 65.588 -44. 071 667 118 6/17/77 1847 0:35 390 56:330 5:260 3.888 -53. 2294 4:50 65 6/17/71 1837 4:25 391 68:180 72:828 -46. 093 6:28 158 6/17/77 1847 0:35 391 57:300 7.028 -54. 238 308 71 6/17/71 1847 4:35 391 68:160 72:828 -46. 093 6:68 148 6/17/77 1502 0:50 391 57:90 7.858 -54. 238 308 571 6/17/71 1847 4:35 391 68:160 72:828 -46. 093 6:63 1.18 6/17/77 1502 0:50 391 57:90 7.858 -54. 332 5:77 6:5 6/17/71 1902 4:50 390 67:700 76:304 -46. 066 6:34 1.58 6/17/77 1502 0:50 391 57:90 7.858 -54. 238 6:50 6:6 6/17/77 1902 4:50 390 67:700 76:304 -46. 0.68 6:34 1.58 6/17/77 1512 1:00 391 58:70 9.578 -54. 238 4:72 6/17/77 1912 5:00 391 67:500 82. 968 -46. 0.93 6:22 1.58 6/17/77 1517 1:05 391 59:240 1:06 1.284 -54. 434 6/17/77 1527 1:15 391 6:01 14. 35 91 6:01 14. 308 -54. 322 5:28 6:1 6:3 6/17/77 1947 5:35 391 6:00 89:168 -46. 0.99 6:59 1.58 6/17/77 1527 1:15 391 6:00 14. 41. 50. 50 1.28 5.59 6/17/77 1027 5:15 391 6:00 89:168 -46. 0.99 6:59 1.58 6/17/77 1027 5:15 391 6:00 89:168 -46. 0.99 6:59 1.58 6/17/77 1027 5:15 391 6:00 89:168 -46. 0.99 6:59 1.58 6/17/77 1027 5:15 391 6:00 89:168 -46. 0.99 6:59 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:59 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:59 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:59 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:69 1.58 6/17/77 1027 5:15 391 6:30 89:168 -46. 0.99 6:30 8:30 8:30 8:30 8:30 8:30 8:30 8:30 8				HR:MN				(C)	CABIN	AMB.				HR:MN				(C)	CABIN	AMB.	
6/17/77 1437 0:25 390 55.26N 3.88W -53294 .450 .65 6/17/77 1837 4:25 391 68.38N 69.23W -45093 .628 .158 6/17/77 1847 0:35 391 56.33N 57.30N 7.02W -54332 .573 .58 6/17/77 1857 4:45 391 67.87N 76.30W -48087 .637 .148 6/17/77 1502 0:50 391 57.79N 7.02W -54332 .573 .58 6/17/77 1857 4:45 391 67.87N 76.30W -48087 .637 .148 6/17/77 1507 0:55 391 58.28N 6.70W -55338 .516 .66 6/17/77 1907 4:55 391 67.51N 79.68W -47109 .640 .178 6/17/77 1517 1:05 391 59.24N 10.45W -54278 .384 .72 6/17/77 1917 5:05 391 67.51N 79.68W -47109 .640 .178 6/17/77 1527 1:15 391 60.16N 12.32W -54286 .451 .63 6/17/77 1917 5:05 391 67.51N 80.13W -46093 .622 .158 6/17/77 1527 1:15 391 60.16N 12.32W -54302 .513 .59 6/17/77 1917 5:05 391 66.57N 80.13W -46093 .622 .158 6/17/77 1547 1:55 391 62.70N 18.57W -54324 .552 .59 6/17/77 1947 5:35 391 65.37N 92.66W -46093 .593 .168 6/17/77 1607 1:55 391 63.45N 0.68W -53310 .523 .59 6/17/77 1957 5:35 391 68.38N 96.18W -46092 .592 .168 6/17/77 1617 2:05 391 63.45N 0.68W -51329 .572 .58 6/17/77 007 5:55 391 63.45N 0.68W -46098 .633 .158 6/17/77 1617 2:05 391 63.45N 0.68W -51329 .572 .58 6/17/77 007 5:55 391 63.45N 0.68W -51329 .572 .58 6/17/77 007 5:55 391 63.45N 0.68W -46098 .633 .158 6/17/77 1617 2:05 391 64.45N 0.559N 25.60W -46340 .554 .60 6/17/77 007 5:55 391 63.45N 0.68W -51329 .572 .58 6/17/77 007 5:55 391 63.45N 0.68W -46098 .633 .158 6/17/77 1617 2:05 391 64.45N 0.59N 98.2W -46098 .633 .158 6/17/77 1617 2:05 391 64.68N 33.80W -44160 6.60 .26 6/17/77 0.07 6:55 391 6.14N 10.45W -46098 .633 .158 6/17/77 1617 2:05 391 64.68N 33.80W -44160 6.60 2:06 6/17/77 0.07 6:55 391 6.14N 10.45W -46098 .633 .158 6/17/77 1617 2:05 391 64.68N 33.80W -44160 6.60 2:06 6/17/77 0.07 6:55 391 6.14N 10.45W -46098 .633 .158 6/17/77 1617 2:07 6:55 391 6.14N 10.45W -46098 .633 .158 6/17/77 1617 2:07 6:55 391 6.74N 33.80W -44100 6.60 2:06 6/17/77 0.07 6:55 391 6.14N 10.45W -46098 .633 .158 6/17/77 1617 2:07 3:07 3:07 3:07 3:07 3		6/17/77	1422	0:10	354	53.51N	1.96W	-52•	.076	•149	•51	6/17/77	1817	4:05	391	68.88N	61.89W	-43.	.070	•652	.118
6/17/77 1447 0:35 390 56.33M 53.30W -54. 218 308 .71 6/17/77 1847 4:35 391 68.16M 72.82W -46. 0.97 .689 148 6/17/77 1857 0:45 391 57.30M -74M .087 .637 .148 6/17/77 1502 0:50 391 57.30M -74M .087 .637 .148 6/17/77 1502 0:50 391 57.79M 7.85M -54. 3376 .577 .65 6/17/77 1902 4:50 390 57.70M /8.01W -46. 0.96 .634 .158 6/17/77 1512 1:00 391 58.77M .957M -54. 278 .384 .72 6/17/77 1907 4:55 391 67.30M .484 .087 .098 .639 .158 6/17/77 1512 1:00 391 58.77M .957M -54. 278 .384 .72 6/17/77 1917 5:00 391 67.30M 81.33W -46. 0.98 .639 .158 6/17/77 1517 1:05 391 50.16M 12.32W -54. 434 6/17/77 1917 5:05 391 66.57M 82.96W -46. 0.93 .622 .158 6/17/77 1547 1:53 391 60.16M 12.32W -54. 434 6/17/77 1917 5:05 391 66.57M 82.96W -46. 0.93 .622 .158 6/17/77 1547 1:53 391 61.91M 16.41W -54. 322 .528 .61 6/17/77 1937 5:25 391 66.00M 89.16W -46. 0.98 .659 .158 6/17/77 1502 1:55 391 63.08M 18.57W -54. 322 .528 .61 6/17/77 1937 5:25 391 66.00M 89.16W -46. 0.99 .593 .168 6/17/77 1602 1:55 391 63.08M 19.66W -53. 324 .552 .59 6/17/77 2002 5:50 391 64.09M 99.85W -40. 0.99 .593 .168 6/17/77 1617 2:50 391 63.08M 19.66W -53. 329 .572 .58 6/17/77 2002 5:50 391 64.33M 99.85W -40. 0.99 .593 .168 6/17/77 1617 2:50 391 63.48M 21.98W -51. 329 .572 .58 6/17/77 2007 5:50 391 64.33M 99.85W -40. 0.99 .633 .158 6/17/77 1617 2:55 391 64.17M 23.15W -49. 389 .577 .60 6/17/77 2017 6:09 391 63.93M 97.43W -46. 0.088 .631 .158 6/17/77 1617 2:55 391 64.17M 23.15W -49. 389 .577 .60 6/17/77 2017 6:09 391 63.10M 99.82W -40. 0.088 .631 .158 6/17/77 1617 2:55 391 64.18M 33.80W -44. 30.60 .544 .63 6/17/77 2017 6:09 391 63.10M 99.82W -40. 0.088 .631 .158 6/17/77 1617 2:55 391 64.18M 33.80W -44. 160 .660 .248 6/17/77 2017 6:09 391 63.50M 19.40W -40. 0.088 .641 .148 6/17/77 1617 2:35 391 66.28M 33.80W -44. 160 .660 .248 6/17/77 2017 6:09 391 63.50M 19.40W -40. 0.086 .622 .99 6/17/77 107 2:35 391 66.28M 33.38W -43. 166 6/17/77 2017 6:09 391 63.50M 11/15W -60. 2.08 .433 .40 -44. 160 .660 .248 6/17/77 1217 7109 391 57.31M 111.82W -62. 188 33.30W -44. 160 .660 .248 6/17/77 1217 7		6/17/77	1427	0:15	386	54.10N	2.54W	-55•	.172	•322	•53	6/17/77	1827	4:15	391	68.60N	65.58W	-44.	.071	•667	.118
6/17/77 1507 0:05 391 57.30N 7.02W -54. 332 .573 .58 6/17/77 1507 0:05 391 57.79N 7.85W -54. 376 .577 .65 6/17/77 1907 4:55 391 67.5NN 79.66W -47109 .640 .178 6/17/77 1517 1507 391 58.28N 8.70W -55338 .516 .66 6/17/77 1907 4:55 391 67.5NN 79.66W -47109 .640 .178 6/17/77 1517 1505 391 59.24N 10.45W -54266 .451 .63 6/17/77 1917 5:00 391 67.3NN 81.33W -46098 .639 .158 6/17/77 1517 152 390 60.16N 12.32W -54266 .451 .63 6/17/77 1917 5:00 391 67.5NN 82.96W -46093 .622 .158 6/17/77 1517 152 390 60.16N 12.32W -54266 .451 .63 6/17/77 1927 5:15 391 66.5NN 82.96W -46093 .622 .158 6/17/77 1517 152 390 60.16N 12.32W -54266 .451 .63 6/17/77 1927 5:15 391 66.5NN 82.96W -46093 .622 .158 6/17/77 1517 152 390 60.16NN 14.30W -54302 .513 .59 6/17/77 1927 5:15 391 66.5NN 82.96W -46093 .593 .168 6/17/77 1547 1:35 391 61.91N 16.41W -54322 .528 .61 6/17/77 1947 5:35 391 64.3NN 92.06W -46093 .593 .168 6/17/77 1507 1:55 391 63.45N 20.61W -51329 .553 .66 6/17/77 2002 5:50 391 64.33N 90.18W -46099 .640 .158 6/17/77 1612 2:00 391 63.45N 20.61W -51329 .553 .66 6/17/77 2007 5:50 391 63.93N 97.43W -46098 .633 .158 6/17/77 1612 2:00 391 64.17N 23.15W -49345 .551 .66 6/17/77 207 6:10 391 62.27N 102.18W -46098 .631 .158 6/17/77 1612 2:00 391 64.17N 23.15W -49345 .551 .66 6/17/77 207 6:10 391 62.27N 102.18W -46098 .631 .158 6/17/77 1617 1617 2:05 391 66.24N 30.95W -46293 .553 .66 6/17/77 207 6:10 391 62.27N 102.18W -46098 .631 .158 6/17/77 1617 2:05 391 66.24N 30.95W -46293 .523 .55 6/17/77 207 6:10 391 62.27N 102.18W -46098 .667 .188 6/17/77 1612 2:05 391 66.24N 30.95W -46293 .523 .56 6/17/77 207 6:10 391 62.27N 102.18W -46098 .671 .188 6/17/77 1617 2:05 390 67.8NN 13.8WW -44160 .680 .540 .698 .699 .699 .108 6/17/77 207 6:10 391 50.3NN 111.68W -19108 6/17/77 17/17 1		6/17/77	1437	0:25	390	55.26N	3.88W	-53•	. 294	•450	•65	6/17/77	1837	4:25	391	68.38N	69.23W	-45.	.093	•628	.15B
6/17/77 1502 0:50 391 57.79N 7.85W -54. 376 .577 .65 6/17/77 1902 4:50 390 67.70N 76.0W -46096 .634 .158 6/17/77 1507 1505 391 58.28N 8.70W -55338 .516 .66 6/17/77 1917 150 391 57.79N 9.57W -54278 .384 .72 6/17/77 1917 1910 391 67.30N 81.33W -46098 .639 .158 6/17/77 1917 1917 1917 1917 1918 391 59.24N 10.45W -54286 .451 .63 6/17/77 1917 1910 391 67.30N 81.33W -46098 .622 .158 6/17/77 1927 1917 1918 1918 -46108 .622 .158 6/17/77 1927 1917 1918 1918 -46108 .622 .158 6/17/77 1927 1918 1918 -46108 .408 .408 .408 .408 .408 .408 .408 .4		6/17/77	1447	0:35	390	56.33N	5.36W	-54.	.218	•308	•71	6/17/77	1847	4:35	391	68.16N	72.82W	-46.	.097	•689	•14B
6/17/77 1507 0:55 391 58:28N 8:70W -55. 338 6:16 66 6/17/77 1907 4:55 391 67.51N 79.68W -47. 109 6:60 1.78 6/17/77 1517 1:00 391 59.24N 10.55W -54. 278 384 .72 6/17/77 1917 5:00 391 67.30N 81.33W -46. 0.98 6:39 1.58 6/17/77 1517 1:05 391 60.16N 12.32W -54. 286 4.51 6.50 6/17/77 1917 5:05 391 66.57N 82.96W -46. 0.93 6:622 1.58 6/17/77 1537 1:15 391 60.16N 12.32W -54. 302 5:13 5.59 6/17/77 1917 5:15 391 66.57N 86.13W -46. 0.98 6:59 1.58 6/17/77 1547 1:35 391 61.91N 16.41W -54. 302 5:28 6:1 6/17/77 1917 5:25 391 66.00 89.60W -46. 0.98 6:59 1.58 6/17/77 1557 1:45 390 62.70N 18.57W -54. 324 5:52 5:9 6/17/77 1917 5:35 391 64.90N 94.86W -46. 0.99 6:60 1.58 6/17/77 1602 1:50 391 63.80N 19.68W -53. 310 5:23 59 6/17/77 2002 5:50 391 64.33N 96.18W -46. 0.99 6:60 1.58 6/17/77 1612 2:00 391 63.81N 21.98W -51. 329 3:573 66 6/17/77 2017 6:05 391 63.90N 99.82W -46. 0.98 6:631 1.58 6/17/77 1612 2:05 391 64.17N 23.15W -49. 3.340 5:577 6.0 6/17/77 2017 6:05 391 62.27N 102.18W -46. 0.088 6:41 1.48 6/17/77 1612 2:55 391 66.24N 30.95W -46. 3340 5:577 6.0 6/17/77 2017 6:05 391 61.00 102.18W -46. 0.098 6:63 1.58 6/17/77 1612 2:55 391 66.24N 30.95W -46. 3340 5:577 6.0 6/17/77 2017 6:05 391 61.10 102.18W -46. 0.098 6:61 1.88 6/17/77 1612 2:55 391 66.24N 30.95W -46. 3340 5:577 6.0 6/17/77 2017 6:05 391 61.4N 104.55W -46. 0.088 6:61 1.48 6/17/77 1612 2:55 391 66.24N 30.95W -46. 3340 5:577 6.0 6/17/77 2017 6:05 391 60.5N 102.18W -46. 0.098 6:61 1.88 6/17/77 1612 2:55 391 66.24N 30.95W -46. 3340 5:57 6.60 6/17/77 2017 6:05 391 60.5NN 102.18W -46. 0.098 6:61 1.88 6/17/77 1612 2:55 391 66.24N 30.95W -46. 3340 5:57 6.60 6/17/77 2017 6:05 391 60.5NN 102.18W -46. 0.088 6:61 1.88 6/17/77 1612 2:55 391 66.24N 30.95W -46. 3340 5:57 6.60 6/17/77 2017 6:05 391 60.5NN 102.18W -46. 0.088 6:61 1.88 6/17/77 1027 6:05 391 60.5NN 102.18W -46. 0.098 6:61 1.88 6/17/77 1027 6:05 391 60.5NN 102.18W -46. 0.098 6:61 1.88 6/17/77 2017 6:05 391 60.5NN 102.18W -46. 0.098 6:61 1.88 6/17/77 2017 6:05 391 60.5NN 102.18W -46. 0.098 6:05 391 60.5NN 102.28W -48. 100. 660		6/17/77	1457	0:45	391	57.30N	7.02W	-54.	.332	•573	•58	6/17/77	1857	4:45	391	67.87N	76.30W	-48.	.087	•637	.148
6/17/77 1512 1:00 391 58.77N 9.57W -54278 .384 .72 6/17/77 1912 5:00 391 67.30N 81.33W -46098 .633 .158 6/17/77 1517 1:05 391 69.24N 10.45W -54286 .451 .63 6/17/77 1927 5:15 391 66.57N 82.96W -46093 .622 .158 6/17/77 1527 1:15 391 60.16N 12.32W -54434 6/17/77 1927 5:15 391 66.57N 82.96W -46098 .659 .158 6/17/77 1547 1:25 390 61.06N 14.30W -54302 .513 .59 6/17/77 1937 5:25 391 66.57N 82.96W -46098 .659 .158 6/17/77 1547 1:35 391 61.91N 16.41W -54322 .528 .61 6/17/77 1947 5:35 391 65.57N 92.06W -46098 .659 .158 6/17/77 1607 1:55 391 63.08N 19.68W -53310 .523 .59 6/17/77 2007 5:50 391 64.33N 92.06W -46092 .592 .168 6/17/77 1617 2:00 391 63.81N 21.98W -51329 .573 .66 6/17/77 2007 5:50 391 63.98N 97.43W -46098 .633 .158 6/17/77 1617 2:00 391 64.17N 23.15W -49345 .557 .60 6/17/77 2007 5:50 391 63.98N 97.43W -46008 .641 .148 6/17/77 1627 2:15 391 64.58W 28.28W -46340 .544 .63 6/17/77 2027 6:10 391 63.10N 99.82W -46008 .641 .148 6/17/77 1637 2:25 391 64.58W 30.95W -46346 .554 .65 6/17/77 2037 6:25 391 61.41N 104.45W -46009 .667 .148 6/17/77 1637 2:25 391 66.28W 30.95W -46293 .523 .56 6/17/77 2037 6:25 391 61.41N 104.45W -46009 .671 .148 6/17/77 1637 2:25 391 66.28W 30.95W -46293 .523 .56 6/17/77 2037 6:25 391 60.50N 106.58W -47114 .635 .188 6/17/77 1702 2:55 390 67.18W 35.29W -43115 .718 .108 6/17/77 2047 6:35 391 59.56N 108.62W -48110 .680 .168 6/17/77 1702 2:55 390 67.48W 35.29W -43115 .718 .108 6/17/77 2102 6:55 390 58.45N 110.27W -50 .302 .622 .49 6/17/77 1707 2:55 391 66.77W 38.37W -43126 .673 .198 6/17/77 2107 6:55 390 58.45N 110.27W -50 .302 .622 .49 6/17/77 1707 2:55 391 66.77W 38.37W -43126 .673 .198 6/17/77 2107 6:55 390 58.45N 110.27W -50 .302 .622 .49 6/17/77 1707 2:55 390 67.47W 38.37W -44100 .680 .248 6/17/77 2107 6:55 390 58.45N 110.27W -50 .302 .622 .49 6/17/77 1707 2:55 390 67.47W 38.37W -44100 .680 .248 6/17/77 2107 6:55 390 58.45N 110.27W -50 .302 .622 .49 6/17/77 1707 3:55 390 66.77W 38.37W -44100 .680 .6		6/17/77	1502	0:50	391	57.79N	7.85W	-54.	.376	•577	•65	6/17/77	1902	4:50	390	67.70N	78.01W	-46.	.096	•634	.15B
6/17/77 1517 1515 391 60.16N 12.32W -54286 .451 .63 6/17/77 1917 5:05 391 67.07N 82.06W -46093 .622 .158 6/17/77 1537 1:15 391 60.16N 12.32W -54302 .513 .59 6/17/77 1937 5:25 391 66.57N 86.13W -46098 .659 .158 6/17/77 1537 1:25 390 61.06N 14.30W -54302 .513 .59 6/17/77 1937 5:25 391 66.0NN 89.16W -46098 .659 .158 6/17/77 1547 1:35 391 61.91N 16.41W -54322 .528 .61 6/17/77 1947 5:35 391 64.33N 92.06W -40093 .593 .168 6/17/77 1602 1:50 391 63.08N 19.68W -53310 .523 .59 6/17/77 2002 5:50 391 64.33N 94.85W -40092 .592 .168 6/17/77 1607 1:55 391 63.45N 20.81W -51329 .572 .58 6/17/77 2007 5:55 391 63.93N 97.43W -46098 .633 .158 6/17/77 1617 2:05 391 64.47N 99.82W -40088 .641 .148 6/17/77 1617 2:05 391 64.47N 23.15W -49340 .577 .60 6/17/77 2017 6:05 391 63.93N 97.43W -46098 .663 .158 6/17/77 1617 2:05 391 64.47N 23.15W -49340 .577 .60 6/17/77 2037 6:25 391 60.5NN 104.58W -40096 .671 .148 6/17/77 1647 2:35 391 66.24N 30.95W -46293 .523 .56 6/17/77 2037 6:25 391 60.5NN 104.58W -47114 .635 .188 6/17/77 1647 2:35 391 66.24N 30.95W -46293 .523 .56 6/17/77 2047 6:35 391 60.5NN 104.58W -49197 .601 .33 6/17/77 1047 2:25 390 67.4NN 35.29W -43115 .718 .168 6/17/77 2027 6:55 390 57.4NN 110.27W -50302 .622 .49 6/17/77 17/17 17		6/17/77	1507	0:55	391	58.28N	8.70W	-55•	.338	•516	•66	6/17/77	1907	4:55	391	67.51N	79.68W	-47.	.109	•640	.17B
6/17/77 1527 1115 391 60.16N 12.32W -54434 6/17/77 1527 1115 391 60.16N 12.32W -54302 .513 .59 6/17/77 1537 125 390 61.06N 14.30W -54302 .513 .59 6/17/77 1537 125 391 61.91N 16.41W -54322 .528 .61 6/17/77 1547 1547 1557 1145 391 61.91N 16.41W -54322 .528 .61 6/17/77 1947 5135 391 65.37N 92.06W -46093 .559 .168 6/17/77 1507 1145 390 62.70N 18.57W -54324 .552 .59 6/17/77 1947 5135 391 64.09N 94.85W -46092 .592 .168 6/17/77 1607 1155 391 63.45N 20.81W -51329 .572 .58 6/17/77 2007 5155 391 64.95N 94.85W -46099 .640 .158 6/17/77 1617 2007 5155 391 64.17N 23.15W -49345 .553 .66 6/17/77 2017 5105 391 63.93N 97.43W -46098 .633 .158 6/17/77 1627 2115 391 64.95N 23.15W -49345 .557 .60 6/17/77 2027 515 391 62.27N 102.18W -46096 .671 .148 6/17/77 1627 2115 391 64.95N 23.15W -49346 .544 .63 6/17/77 2037 6125 391 64.95N 22.550 391 64.95N 22.550 391 65.95N 28.23W -47346 .584 .59 6/17/77 2037 6125 391 60.00N 106.58W -47114 .635 .188 6/17/77 1647 2135 391 66.88N 33.95W -46293 .523 .56 6/17/77 2057 6135 391 60.00N 106.58W -47114 .635 .188 6/17/77 1677 2245 391 66.88N 33.80W -44160 .680 .248 6/17/77 2057 6145 391 59.56N 108.62W -48110 .680 .168 6/17/77 1707 2155 390 67.47N 36.81W -45086 .570 .158 6/17/77 2127 615 390 58.45N 109.46W -49197 .601 .33 6/17/77 1707 2155 390 67.47N 36.81W -45086 .570 .158 6/17/77 2127 7103 390 58.45N 110.27W -50302 .622 .49 6/17/77 1707 2155 390 67.47N 38.37W -43086 .667 .158 6/17/77 2127 7103 390 58.45N 110.27W -50302 .622 .49 6/17/77 1707 3155 391 68.42N 33.34W -44004 .668 .108 6/17/77 2127 7103 391 53.85N 110.27W -50270 .527 .51 6/17/77 1707 3155 391 68.42N 33.34W -44004 .668 .108 6/17/77 2127 7103 391 53.85N 110.27W -50270 .527 .51 6/17/77 1707 3155 391 68.42N 33.34W -44004 .668 .108 6/17/77 2127 7103 391 53.85N 110.27W -50270 .527 .51 6/17/77 1707 3155 391 68.42N 33.34W -44004 .668 .108 6/17/77 2127 7103 391 53.85N 110.27W -50270 .527 .51 6/17/77 1802 3155 391 69.1N 39.55N -422063 .650 .108		6/17/77	1512	1:00	391	58.77N	9.57₩	-54.	.278	•384	•72	6/17/77	1912	5:00	391	67.30N	8Ī.33W	-46.	.098	•639	.158
6/17/77 1537 1:25 390 61.06N 14.30W -54. 302 5513 59 6/17/77 1937 5:25 391 66.00N 89.16W -46. 0.98 .659 .158 6/17/77 1557 1:35 391 61.91N 16.41W -54. 322 528 61 6/17/77 1937 5:45 391 65.37N 92.06W -40. 0.93 593 .618 6/17/77 1557 1:35 391 63.08N 19.68W -53. 310 552 59 6/17/77 1957 5:45 391 64.09N 94.85W -40. 0.92 .600 6/17/77 1602 1:55 391 63.08N 19.68W -53. 310 523 59 6/17/77 2007 5:55 391 64.33N 96.18W -40. 0.99 .640 .158 6/17/77 1617 2:05 391 64.17N 23.15W -49. 345 577 .60 6/17/77 2017 5:55 391 63.10N 99.82W -40. 0.88 .641 .148 6/17/77 1627 2:15 391 64.49N 23.15W -49. 345 577 .60 6/17/77 2027 5:55 391 63.10N 99.82W -40. 0.88 .641 .148 6/17/77 1637 2:15 391 64.49N 25.60W -46. 340 554 .63 6/17/77 2027 5:15 391 64.49N 25.60W -46. 340 554 .63 6/17/77 2027 5:15 391 64.49N 25.60W -46. 340 554 .63 6/17/77 2027 5:15 391 64.49N 25.60W -46. 340 554 .63 6/17/77 2027 5:15 391 64.49N 25.60W -46. 340 554 .63 6/17/77 2027 5:15 391 64.49N 25.60W -46. 340 554 .63 6/17/77 2027 5:15 391 60.50N 100.58W -47. 114 .635 .188 6/17/77 1637 2:25 391 66.24N 30.95W -47. 346 .582 .59 6/17/77 2037 6:25 391 60.50N 100.58W -47. 114 .635 .188 6/17/77 1637 2:35 391 66.24N 30.95W -44. 160 .660 .248 6/17/77 2057 6:45 391 59.56N 100.62W -48. 110 .680 .168 6/17/77 1702 2:55 390 67.47N 36.81W -45. 086 .570 .158 6/17/77 2102 6:55 390 58.45N 110.27W -50. 302 .622 .49 6/17/77 1707 2:55 390 67.47N 38.37W -43126 .673 .198 6/17/77 2107 6:55 390 58.45N 110.27W -50302 .622 .49 6/17/77 1707 3:15 391 68.42N 38.37W -43126 .673 .198 6/17/77 2127 7:15 391 59.18N 111.82W -51311 .650 .48 6/17/77 1707 3:15 391 68.42N 38.37W -43126 .673 .198 6/17/77 2127 7:15 391 59.61N 111.82W -51311 .650 .48 6/17/77 1707 3:15 391 68.42N 39.45W -42006 .660 .108 6/17/77 2127 7:15 391 59.85N 111.94W -60208 .433 .48 6/17/77 1807 3:15 391 68.42N 39.45W -42006 .650 .108 6/17/77 2127 7:15 391 59.85N 111.94W -60208 .433 .48 6/17/77 1807 3:55 391 69.24N 56.23W -44006 .650 .108 6/17/77 2127 7:15 391 59.26N 11/15W -62185 .379 .49 6/17/77 1807 3:55 391 69.		6/17/77	1517	1:05	391	59.24N	10.45W	-54.	.286	•451	•63	6/17/77	1917	5:05	391	67.07N	82.96W	-46.	.093	.622	.158
6/17/77 1547 1:35 391 61.91N 16.41W -54. 322 .528 .61 6/17/77 1947 5:35 391 65.37N 92.06W -40. 0.93 .593 .168 6/17/77 1557 1:45 390 62.77N 18.57W -54. 324 .552 .59 6/17/77 2002 5:50 391 64.98N 94.85W -40. 0.92 .592 .108 6/17/77 1607 1:55 391 63.45N 20.81W -51. 329 .572 .58 6/17/77 2007 5:50 391 63.93N 97.43W -46. 0.99 .633 .158 6/17/77 1612 2:00 391 63.81N 21.8W -51. 329 .572 .58 6/17/77 2007 5:50 391 63.93N 97.43W -46. 0.98 .633 .158 6/17/77 1612 2:00 391 64.87N 23.15W -49. 345 .577 .60 6/17/77 2027 6:05 391 63.27N 102.18W -40. 108 .641 .148 6/17/77 1627 2:15 391 64.89N 25.60W -46340 .544 .63 6/17/77 2037 6:25 391 62.27N 102.18W -40. 100 .642 .168 6/17/77 1647 2:35 391 65.24N 30.95W -46. 293 .523 .56 6/17/77 2037 6:25 391 60.88W -47114 .635 .188 6/17/77 1657 2:45 391 66.88N 33.80W -44160 .680 .248 6/17/77 2057 6:45 391 59.56N 108.62W -48110 .680 .168 6/17/77 1702 2:50 390 67.18N 35.29W -43115 .718 .168 6/17/77 2102 6:50 391 57.31N 111.62W -51302 .622 .49 6/17/77 1702 2:50 390 67.47N 36.81W -45. 0.86 .570 .158 6/17/77 2112 7:00 390 57.89N 111.00W -51277 .586 .47 6/17/77 1707 1707 3:55 391 68.20N 39.97W -43098 .667 .158 6/17/77 2117 7:00 390 57.89N 111.00W -51277 .586 .47 6/17/77 1707 3:55 391 68.42N 33.34W -42074 .608 .128 6/17/77 2127 7:15 391 52.18N 111.00W -51277 .586 .47 6/17/77 1707 1707 3:55 391 68.77N 46.88W -41071 .667 .188 6/17/77 2127 7:15 391 52.18N 111.00W -51277 .586 .47 6/17/77 1707 3:25 391 68.77N 46.88W -42074 .608 .128 6/17/77 2127 7:15 391 52.18N 111.00W -59214 .440 .49 6/17/77 1707 3:35 391 68.77N 46.88W -42074 .608 .128 6/17/77 2127 7:15 391 52.18N 111.00W -59214 .440 .49 6/17/77 1802 3:55 391 69.18N 50.55W -42063 .650 .108 6/17/77 2207 7:55 390 55.01N 114.65W -59214 .440 .49 6/17/77 1802 3:55 391 69.1N 58.13W -42074 .608 .594 .108 6/17/77 2207 7:55 390 55.01N 114.65W -59214 .440 .49 6/17/77 1807 3:55 391 69.1N 58.13W -42074 .608 .594 .108 6/17/77 2207 7:55 390 50.0N 114.65W -59214 .440 .49 6/17/77 1802 3:55 391 69.1N 58.13		6/17/77	1527	1:15	391	60.16N	12.32W	-54.	•	•434		6/17/77	1927	5:15	391	66.57N	86.13W	-46.	.102	•637	.168
6/17/77 1602 1:50 391 63.08N 19.68W -51. 324		6/17/77	1537	1:25	390	61.06N	14.30W	-54.	.302	•513	•59	6/17/77	1937	5:25	391	66.00N	89.16W	-46.	.098	•659	.15B
6/17/77 1607 1:55 391 63.08N 19.68W -53. 310 5.23 5.59 6/17/77 2007 5:50 391 64.33N 96.18W -46. 0.099 6.640 1.58 6/17/77 1607 1:55 391 63.45N 20.081W -51. 363 5.53 6.6 6/17/77 2017 6:05 391 63.93N 97.43W -46. 0.088 6.641 1.58 6/17/77 1617 2:05 391 64.98N 23.15W -49. 345 5.57 6.60 6/17/77 2027 6:15 391 62.27N 102.18W -46. 0.088 6.641 1.58 6/17/77 1627 2:15 391 64.98N 25.60W -46. 340 5.54 6.3 6/17/77 2027 6:15 391 62.27N 102.18W -46. 0.096 6.71 1.48 6/17/77 1637 2:25 391 65.55N 28.23W -47. 346 5.82 5.9 6/17/77 2047 6:25 391 61.41N 104.45W -46. 0.096 6.71 1.48 6/17/77 1657 2:25 391 65.55N 28.23W -47. 346 5.82 5.9 6/17/77 2047 6:25 391 60.50N 106.58W -47. 114 6.635 1.88 6/17/77 1657 2:45 391 66.88N 33.80W -44. 160 6.80 2.48 6/17/77 2057 6:45 391 59.56N 108.62W -48. 110 6.80 1.68 6/17/77 1707 2:55 390 67.47N 36.81W -45. 0.086 5.70 1.58 6/17/77 207 6:55 390 57.89N 111.06W -51. 277 5.58 6/17/77 1717 3:05 391 68.42N 33.34W -42. 0.074 6.08 1.28 6/17/77 2137 7:25 390 55.01N 114.65W -59. 214 4.40 4.9 6/17/77 1717 3:25 391 68.42N 43.34W -42. 0.074 6.08 1.28 6/17/77 2137 7:25 390 55.01N 114.65W -59. 214 4.40 4.9 6/17/77 1717 3:25 391 69.24N 46.88W -41. 0.071 6.647 1.18 6/17/77 2137 7:25 391 52.0N 117.73W -61. 1.89 3.38 4.8 6/17/77 1507 3:25 391 69.24N 46.88W -41. 0.071 6.647 1.18 6/17/77 2137 7:25 391 52.0N 117.73W -61. 1.89 3.38 4.8 6/17/77 1507 3:25 391 69.24N 46.88W -41. 0.071 6.647 1.18 6/17/77 2137 7:25 391 52.0N 117.73W -61. 1.89 3.38 4.8 6/17/77 1507 3:25 391 69.24N 46.88W -41. 0.071 6.647 1.18 6/17/77 2137 7:25 391 52.0N 117.73W -61. 1.89 3.38 4.8 6/17/77 1802 3:50 391 69.24N 56.23W -42. 0.070 6.09 1.08 6/17/77 2217 7:20 391 50.3NN 115.29W -62. 1.61 3.81 4.22 6/17/77 1807 3:55 391 69.21N 56.23W -42. 0.070 6.09 1.08 6/17/77 2217 8:00 391 50.3NN 115.29W -62. 1.61 3.81 4.22 6/17/77 1807 3:55 391 69.21N 56.23W -42. 0.070 6.09 1.08 6/17/77 2217 8:00 391 50.3NN 115.29W -62. 1.61 3.81 4.22 6/17/77 1807 3:55 391 69.21N 56.23W -42. 0.070 6.00 6.00 6.00 6.00 6.00 6.00 6.		6/17/77	1547	1:35	391	61.91N	16.41W	-54.		•528	•61	6/17/77	1947				92.06W	-46.	.093	•593	.168
6/17/77 1607 1:55 391 63.45N 20.81W -51. 329 .572 .58 6/17/77 2007 5:55 391 63.93N 97.43W -46098 .633 .15B 6/17/77 1612 2:00 391 63.81N 21.98W -51363 .553 .66 6/17/77 2017 6:05 391 63.10N 99.82W -46088 .641 .14B 6/17/77 1617 2:05 391 64.17N 23.15W -49345 .577 .60 6/17/77 2017 6:05 391 63.10N 99.82W -46100 .642 .16B 6/17/77 1627 2:15 391 64.89N 25.60W -46340 .544 .63 6/17/77 2037 6:25 391 61.41N 104.45W -46096 .671 .14B 6/17/77 1637 2:25 391 65.59N 28.23W -47346 .582 .59 6/17/77 2047 6:35 391 60.50N 106.58W -47114 .635 .18B 6/17/77 1647 2:35 391 66.88N 33.80W -44160 .680 .248 6/17/77 2057 6:45 391 59.56N 108.62W -48110 .665 6/17/77 1707 2:55 390 67.47N 36.81W -45086 .570 .15B 6/17/77 2112 7:00 390 57.89N 111.82W -51311 .650 .48 6/17/77 1717 3:05 391 68.00N 39.97W -43126 .673 .19B 6/17/77 2127 7:15 391 59.50N 104.45W -51311 .650 .48 6/17/77 1727 3:15 391 68.00N 39.97W -43098 .667 .15B 6/17/77 2127 7:15 391 59.50N 111.82W -51311 .650 .48 6/17/77 1727 3:15 391 68.00N 39.97W -43098 .667 .15B 6/17/77 2127 7:15 391 59.50N 111.82W -51311 .650 .48 6/17/77 1727 3:15 391 68.00N 39.97W -43098 .667 .15B 6/17/77 2127 7:15 391 59.50N 111.82W -51311 .650 .48 6/17/77 1727 3:15 391 68.40N 43.34W -42074 .608 .12B 6/17/77 2127 7:15 391 59.50N 114.65W -59214 .440 .49 6/17/77 1747 3:15 391 69.6NN 50.55W -42063 .650 .10B 6/17/77 2127 7:15 391 52.58N 114.65W -59214 .440 .49 6/17/77 1747 3:25 391 69.24N 54.33W -42070 .698 .10B 6/17/77 2217 7:15 391 52.58N 114.15W -62185 .379 .49 6/17/77 1807 3:55 391 69.1NN 58.13W -42070 .698 .10B 6/17/77 2217 7:15 391 50.38N 118.83W -62161 .381 .42 6/17/77 1802 3:50 391 69.1NN 58.13W -42004 .601 .11B 6/17/77 2217 8:05 391 50.38N 118.83W -62161 .381 .42 6/17/77 1802 4:00 391 69.1NN 58.13W -42004 .601 .11B 6/17/77 2217 8:05 391 50.38N 118.83W -62161 .381 .42 6/17/77 1802 4:00 391 69.1NN 58.13W -42004 .601 .11B 6/17/77 2217 8:05 391 50.38N 118.83W -62163 .081 .143 .57		6/17/77	1557	1:45	390	62.70N	18.57W	-54.	.324	•552	•59	6/17/77	1957	5:45	391	64.69N	94.85W	-46.	.092	•592	•16 <del>8</del>
6/17/77 1612 2:00 391 63.81N 21.98W -51. 363 .553 .66 6/17/77 2017 6:05 391 63.10N 99.82W -46. 0.088 .641 .148 6/17/77 1617 2:05 391 64.17N 23.15W -49345 .577 .60 6/17/77 2027 6:15 391 62.27N 102.18W -46100 .642 .168 6/17/77 1637 2:25 391 65.59N 28.23W -47346 .582 .59 6/17/77 2047 6:35 391 60.50N 106.58W -47114 .635 .188 6/17/77 1647 2:35 391 66.24N 30.95W -46293 .523 .56 6/17/77 2047 6:35 391 60.50N 106.58W -47114 .635 .188 6/17/77 1657 2:45 391 66.88N 33.80W -44160 .680 .248 6/17/77 2057 6:45 391 59.56N 108.62W -48110 .680 .168 6/17/77 1702 2:50 390 67.18N 35.29W -43115 .718 .168 6/17/77 2107 6:50 391 59.01N 109.46W -49197 .601 .33 6/17/77 1707 2:55 390 67.47N 36.81W -45086 .570 .158 6/17/77 2107 6:50 390 57.89N 111.06W -51277 .586 .47 6/17/77 1717 3:05 391 68.00N 39.97W -43098 .667 .158 6/17/77 2127 7:15 391 57.31N 111.82W -51311 .650 .48 6/17/77 1727 3:15 391 68.42N 43.34W -42074 .608 .128 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1737 3:25 391 69.0N 54.33W -42063 .650 .108 6/17/77 2137 7:25 391 52.68N 11/15 -60.208 .433 .48 6/17/77 1802 3:50 391 69.0N 54.33W -42064 .601 .118 6/17/77 2207 7:50 391 50.30N 117.73W -61189 .389 .49 6/17/77 1807 3:55 391 69.1N 56.23W -41058 .594 .108 6/17/77 2217 8:50 391 50.30N 114.65W -59214 .440 .49 6/17/77 1807 3:55 391 69.1N 56.23W -41058 .594 .108 6/17/77 2207 7:50 391 50.30N 114.65W -59214 .440 .49 6/17/77 1807 3:55 391 69.1N 56.23W -41058 .594 .108 6/17/77 2207 7:50 391 50.30N 114.65W -62165 .381 .426 6/17/77 1807 3:55 391 69.1N 56.23W -41058 .594 .108 6/17/77 2217 8:50 391 50.30N 114.83W -62158 .255 .62 6/17/77 1802 3:50 391 69.0N 50.0N 60.02W -42067 .617 .118 6/17/77 2217 8:05 391 50.30N 114.83W -62158 .255 .62 6/17/77 1802 3:50 391 69.0N 50.0N 60.00W -42067 .617 .118 6/17/77 2217 8:05 391 50.30N 114.83W -62158 .255 .62 6/17/77 1802 3:50 391 69.0N 50.0N 50.0N 60.00W -42067 .617 .118 6/17/77 2217 8:05 391 50.30N 114.83W -62158 .255 .62 6/17/77 1802 4:00		6/17/77	1602	1:50	391	63.08N	19.68W	-53•	.310	•523	•59	6/17/77	2002	5:50	391	64.33N	96.18W	-46.	.099	•640	.15B
6/17/77 1617 2:05 391 64.17N 23.15W -49345 .577 .60 6/17/77 2027 6:15 391 62.27N 102.18W -46100 .642 .16B 6/17/77 1627 2:15 391 64.89N 25.60W -46340 .544 .63 6/17/77 2037 6:25 391 61.41N 104.45W -46096 .671 .14B 6/17/77 1637 2:25 391 65.59N 28.23W -47346 .582 .59 6/17/77 2047 6:35 391 60.50N 106.58W -47114 .635 .18B 6/17/77 1647 2:35 391 66.24N 30.95W -46293 .523 .56 6/17/77 2057 6:45 391 59.56N 108.62W -48110 .680 .16B 6/17/77 1702 2:55 390 67.18N 35.29W -43115 .71B .10B 6/17/77 2102 6:50 391 59.50N 109.46W -49197 .601 .33 6/17/77 1707 2:55 390 67.47N 36.81W -45086 .570 .15B 6/17/77 2112 70.0390 57.89N 110.02W -50302 .622 .49 6/17/77 2117 712 3:03 391 68.00N 39.97W -43098 .667 .15B 6/17/77 2127 715 3:03 391 68.42N 43.34W -42074 .608 .12B 6/17/77 2137 715 390 55.01N 114.65W -50214 .440 .49 6/17/77 1747 1757 3:15 391 68.42N 43.34W -42074 .608 .12B 6/17/77 2157 715 391 53.55 391 69.24N 54.33W -42063 .650 .10B 6/17/77 2157 7150 391 52.68N 11/.15W -60284 .49 6/17/77 1807 3:55 391 69.24N 54.33W -42063 .650 .10B 6/17/77 2157 7150 391 52.68N 11/.15W -60288 .433 .48 6/17/77 1807 3:55 391 69.24N 54.33W -42063 .650 .10B 6/17/77 2202 7150 391 50.36N 11/.15W -60189 .389 .49 6/17/77 1807 3:55 391 69.1N 58.13W -42064 .601 .11B 6/17/77 2217 8:00 391 50.93N 118.83W -62161 .381 .42 6/17/77 1807 3:55 391 69.1N 58.13W -42064 .601 .11B 6/17/77 2217 8:00 391 50.93N 118.83W -62158 .255 .62 6/17/77 1807 3:55 391 69.01N 58.13W -42064 .601 .11B 6/17/77 2217 8:00 391 50.93N 119.42W -63081 .143 .57		6/17/77	1607	1:55	391	63.45N	20.81W	-51.	.329	•572	•58	6/17/77	2007	5:55	391	63.93N	97.43W	-46.	.098	•633	.15B
6/17/77 1627 2:15 391 64.89N 25.60W -46340 .544 .63 6/17/77 2037 6:25 391 61.41N 104.45W -40096 .671 .148 6/17/77 1637 2:25 391 65.59N 28.23W -47346 .582 .59 6/17/77 2047 6:35 391 60.50N 106.58W -47114 .635 .188 6/17/77 1647 2:35 391 66.24N 30.95W -46293 .523 .56 6/17/77 2057 6:45 391 59.50N 108.62W -48110 .680 .168 6/17/77 1657 2:45 391 66.88N 33.80W -44160 .680 .248 6/17/77 2057 6:45 391 59.50N 108.62W -49197 .601 .33 6/17/77 1702 2:50 390 67.18N 35.29W -43115 .718 .168 6/17/77 2102 6:50 390 58.45N 110.27W -50302 .622 .49 6/17/77 1707 2:55 390 67.47N 36.81W -45086 .570 .158 6/17/77 2112 7:00 390 57.89N 111.06W -51277 .586 .47 6/17/77 1712 3:00 391 67.74N 38.37W -43126 .673 .198 6/17/77 2117 7:105 391 57.31N 111.82W -51311 .650 .48 6/17/77 1717 3:05 391 68.00N 39.97W -43098 .667 .158 6/17/77 2127 7:15 391 56.18N 113.27W -55270 .527 .51 6/17/77 1737 3:15 391 68.42N 43.34W -42074 .608 .128 6/17/77 2137 7:15 391 55.01N 114.65W -59214 .440 .49 6/17/77 1747 3:35 391 69.24N 43.34W -42074 .608 .108 6/17/77 2137 7:35 391 53.85N 115.94W -60208 .433 .48 6/17/77 1757 3:45 391 69.24N 54.33W -42063 .650 .108 6/17/77 2127 7:35 391 52.68N 11/.15W -62185 .379 .49 6/17/77 1757 3:45 391 69.24N 54.33W -42063 .650 .108 6/17/77 2202 /:50 391 52.10N 11/.73W -61189 .389 .49 6/17/77 1807 3:55 391 69.1N 56.23W -41058 .594 .108 6/17/77 2212 8:05 391 50.36N 11/.42W -63081 .143 .57		6/17/77	1612	2:00	391	63.81N	21.98W	-51.	•363	•553	•66	6/17/77	2017	6:05	391	63.10N	99.82W	-46.	.088	•641	.14B
6/17/77 1637		6/17/77	1617	2:05	391	64.17N	23.15W	-49.	.345	•577	•60	6/17/77	2027	6:15	391	62.27N	102.18W	-46.	.100	•642	.168
6/17/77 1647 2:35 391 66.24N 30.95W -46293 .523 .56 6/17/77 2057 6:45 391 59.56N 108.62W -48110 .680 .168 6/17/77 1657 2:45 391 66.88N 33.80W -44160 .680 .248 6/17/77 2102 6:50 391 59.01N 109.46W -49197 .601 .33 6/17/77 1702 2:50 390 67.47N 35.29W -43115 .718 .168 6/17/77 2107 6:55 390 58.45N 110.27W -50302 .622 .49 6/17/77 1712 3:00 391 67.74N 38.37W -43126 .673 .198 6/17/77 2117 7:00 390 57.89N 111.06W -51277 .586 .47 6/17/77 1717 3:05 391 68.00N 39.97W -43098 .667 .158 6/17/77 2127 7:15 391 57.31N 111.82W -51311 .650 .48 6/17/77 1727 3:15 391 68.42N 43.34W -42074 .608 .128 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1747 3:35 391 68.77N 46.88W -41071 .647 .118 6/17/77 2147 7:35 391 53.85N 115.94W -60208 .433 .48 6/17/77 1757 3:45 391 69.24N 54.33W -42063 .650 .108 6/17/77 2207 7:45 391 52.68N 117.73W -61189 .389 .49 6/17/77 1802 3:50 391 69.1N 56.23W -41058 .594 .108 6/17/77 2217 7:55 391 50.38N 118.83W -62161 .381 .42 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .118 6/17/77 2217 8:00 391 50.36N 119.42W -63081 .143 .57		6/17/77	1627	2:15	391	64.89N	25.60W	-46.	<b>.</b> 340	•544	•63	6/17/77	2037	6:25	391	61.41N	104.45W	-40.	.096	•671	.148
6/17/77 1657 2:45 391 66.88N 33.80W -44160 .680 .248 6/17/77 2102 6:50 391 59.01N 109.46W -49197 .601 .33 6/17/77 1702 2:50 390 67.18N 35.29W -43115 .718 .168 6/17/77 2107 6:55 390 58.45N 110.27W -50302 .622 .49 6/17/77 1707 2:55 390 67.47N 36.81W -45086 .570 .158 6/17/77 2112 7:00 390 57.89N 111.06W -51277 .586 .47 6/17/77 1712 3:00 391 67.74N 38.37W -43126 .673 .198 6/17/77 2117 7:05 391 57.31N 111.82W -51311 .650 .48 6/17/77 1717 3:05 391 68.00N 39.97W -43098 .667 .158 6/17/77 2127 7:15 391 56.18N 113.27W -55270 .527 .51 6/17/77 1727 3:15 391 68.42N 43.34W -42074 .608 .128 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1747 3:35 391 69.06N 50.55W -42063 .650 .108 6/17/77 2157 7:45 391 52.68N 11/.15W -60208 .433 .48 6/17/77 1757 3:45 391 69.24N 54.33W -42070 .698 .108 6/17/77 2202 7:55 391 52.68N 11/.15W -60185 .379 .49 6/17/77 1802 3:50 391 69.19N 56.23W -41058 .594 .108 6/17/77 2207 7:55 391 50.36N 119.42W -60161 .381 .42 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .118 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1637	2:25	391	65.59N	28.23W	-47.	.346	•582	•59	6/17/77	2047	6:35	391	60.50N	106.58W	-47.	.114	•635	.18B
6/17/77 1702 2:50 390 67.18N 35.29W -43115 .718 .16B 6/17/77 2107 6:55 390 58.45N 110.27W -50302 .622 .49 6/17/77 1707 2:55 390 67.47N 36.81W -45086 .570 .15B 6/17/77 2112 7:00 390 57.89N 111.06W -51277 .586 .47 6/17/77 1712 3:00 391 67.74N 38.37W -43126 .673 .19B 6/17/77 2117 7:05 391 57.31N 111.82W -51311 .650 .48 6/17/77 1717 3:05 391 68.00N 39.97W -43098 .667 .15B 6/17/77 2127 7:15 391 56.18N 113.27W -55270 .527 .51 6/17/77 1727 3:15 391 68.42N 43.34W -42074 .608 .12B 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1747 3:35 391 68.77N 46.88W -41071 .647 .11B 6/17/77 2137 7:35 391 53.85N 115.94W -60208 .433 .48 6/17/77 1757 3:45 391 69.24N 50.55W -42063 .650 .10B 6/17/77 2207 7:35 391 52.68N 11/.15W -62185 .379 .49 6/17/77 1802 3:50 391 69.19N 56.23W -41058 .594 .10B 6/17/77 2207 7:55 391 51.51N 118.29W -62161 .381 .42 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .11B 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1647	2:35	391	66.24N	30.95W	-46.	.293	•523	•56	6/17/77	2057	6:45	391	59.56N	108.62W	-48.	.110	•680	.16B
6/17/77 1707 2:55 390 67.47N 36.81W -45086 .570 .158 6/17/77 2112 7:00 390 57.89N 111.06W -51277 .586 .47 31.07 1712 3:00 391 67.74N 38.37W -43126 .673 .198 6/17/77 2117 7:05 391 57.31N 111.82W -51311 .650 .48 6/17/77 1717 3:05 391 68.00N 39.97W -43098 .667 .158 6/17/77 2127 7:05 391 56.18N 113.27W -55270 .527 .51 6/17/77 1727 3:15 391 68.42N 43.34W -42074 .608 .128 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1737 3:25 391 68.77N 46.88W -41071 .647 .118 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1747 3:35 391 69.06N 50.55W -42063 .650 .108 6/17/77 2157 7:35 391 52.68N 11/.15W -62185 .379 .49 6/17/77 1802 3:50 391 69.24N 54.33W -42070 .698 .108 6/17/77 2207 7:55 391 52.10N 117.73W -61189 .389 .49 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .118 6/17/77 2212 8:00 391 50.93N 118.83W -62158 .255 .62 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .118 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1657	2:45	391	66.88N	33.80W	-44.	.160	•680	•248			6:50	391	59.01N	109.46W	-49.	.197	•601	.33
6/17/77 1712 3:00 391 67.74N 38.37W -43126 .673 .198 6/17/77 2117 7:05 391 57.31N 111.82W -51311 .650 .48 6/17/77 1717 3:05 391 68.00N 39.97W -43098 .667 .158 6/17/77 2127 7:15 391 56.18N 113.27W -55270 .527 .51 6/17/77 1727 3:15 391 68.42N 43.34W -42074 .608 .128 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1737 3:25 391 68.77N 46.88W -41071 .647 .118 6/17/77 2147 7:35 391 53.85N 115.94W -60208 .433 .48 6/17/77 1747 3:35 391 69.06N 50.55W -42063 .650 .108 6/17/77 2157 7:45 391 52.68N 117.15W -62185 .379 .49 6/17/77 1802 3:50 391 69.24N 54.33W -42070 .698 .108 6/17/77 2207 7:55 391 52.10N 117.73W -61189 .389 .49 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .118 6/17/77 2212 8:00 391 50.93N 118.83W -62158 .255 .62 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .118 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1702	2:50	390	67.18N	35.29W	-43.	.115	•718	•16B	6/17/77	2107	6:55	390	58.45N	110.27W	-50.	.302	•622	.49
6/17/77 1717 3:05 391 68.00N 39.97W -43098 .667 .15B 6/17/77 2127 7:15 391 56.18N 113.27W -55270 .527 .51 6/17/77 1727 3:15 391 68.42N 43.34W -42074 .608 .12B 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1/37 3:25 391 68.77N 46.88W -41071 .647 .11B 6/17/77 2147 7:35 391 53.85N 115.94W -60208 .433 .48 6/17/77 1747 3:35 391 69.06N 50.55W -42063 .650 .10B 6/17/77 2157 7:45 391 52.68N 11/.15W -62185 .379 .49 6/17/77 1802 3:50 391 69.24N 54.33W -42070 .698 .10B 6/17/77 2202 7:50 391 52.10N 117.73W -61189 .389 .49 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .11B 6/17/77 2212 8:00 391 50.93N 118.83W -62158 .255 .62 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .11B 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57	<u> </u>	6/17/77	1707	2:55	390	67.47N	36.81W	<b>~</b> 45.	.086	•570	•158	6/17/77	2112	7:00	390	57.89N	111.06W	-51.	.277	•586	.47
6/17/77 1727 3:15 391 68.42N 43.34W -42074 .608 .128 6/17/77 2137 7:25 390 55.01N 114.65W -59214 .440 .49 6/17/77 1737 3:25 391 68.77N 46.88W -41071 .647 .118 6/17/77 2147 7:35 391 53.85N 115.94W -60208 .433 .48 6/17/77 1747 3:35 391 69.06N 50.55W -42063 .650 .108 6/17/77 2157 7:45 391 52.68N 11/.15W -62185 .379 .49 6/17/77 1757 3:45 391 69.24N 54.33W -42070 .698 .108 6/17/77 2202 7:50 391 52.10N 117.73W -61189 .389 .49 6/17/77 1802 3:50 391 69.19N 56.23W -41058 .594 .108 6/17/77 2207 7:55 391 51.51N 118.29W -62161 .381 .42 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .118 6/17/77 2212 8:00 391 50.93N 118.83W -62158 .255 .62 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .118 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57	ະ	6/17/77	1712	3:00	391	67.74N	38.37₩	-43.	.126	•673	•198	6/17/77	2117	7:05	391	57.31N	111.82W	-51.	•311	•650	.48
6/17/77 1/37 3:25 391 68.77N 46.88W -41071 .647 .118 6/17/77 2147 7:35 391 53.85N 115.94W -60208 .433 .48 6/17/77 1747 3:35 391 69.06N 50.55W -42063 .650 .108 6/17/77 2157 7:45 391 52.68N 117.15W -62185 .379 .49 6/17/77 1757 3:45 391 69.24N 54.33W -42070 .698 .108 6/17/77 2202 7:50 391 52.10N 117.73W -61189 .389 .49 6/17/77 1802 3:50 391 69.19N 56.23W -41058 .594 .108 6/17/77 2207 7:55 391 51.51N 118.29W -62161 .381 .42 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .118 6/17/77 2212 8:00 391 50.93N 118.83W -62158 .255 .62 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .118 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1717	3:05	391	68.00N	39.97W	-43.	.098	•667	•158	6/17/77	2127				113.27W	-55.		•527	.51
6/17/77 1747 3:35 391 69.06N 50.55W -42063 .650 .10B 6/17/77 2157 7:45 391 52.68N 117.15W -62185 .379 .49 6/17/77 1757 3:45 391 69.24N 54.33W -42070 .69B .10B 6/17/77 2202 7:50 391 52.10N 117.73W -61189 .389 .49 6/17/77 1802 3:50 391 69.19N 56.23W -4105B .594 .10B 6/17/77 2207 7:55 391 51.51N 118.29W -62161 .381 .42 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .11B 6/17/77 2212 8:00 391 50.93N 118.83W -6215B .255 .62 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .11B 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1727	3:15	391	68.42N	43.34W	-42.	.074	•608	•128	6/17/77	2137	7:25	390	55.01N	114.65W	-59.	.214	• 440	.49
6/17/77 1757 3:45 391 69.24N 54.33W -42070 .698 .108 6/17/77 2202 /:50 391 52.10N 117.73W -61189 .389 .49 6/17/77 1802 3:50 391 69.19N 56.23W -41058 .594 .108 6/17/77 2207 /:55 391 51.51N 118.29W -62161 .381 .42 6/17/77 1807 3:55 391 69.11N 58.13W -42004 .601 .11B 6/17/77 2212 8:00 391 50.93N 118.83W -62158 .255 .62 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .11B 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1/37	3:25	391	68.77N	46.88W	-41.	.071	•647	•118	6/17/77	2147	7:35	391	53.85N	115.94W	-60.	.208	•433	ୁ 4 ଧ
6/17/77 1802 3:50 391 69:19N 56:23W -41058 .594 .10B 6/17/77 2207 7:55 391 51:51N 118:29W -62161 .381 .42 6/17/77 1807 3:55 391 69:11N 58:13W -42064 .601 .11B 6/17/77 2212 8:00 391 50:93N 118:83W -62158 .255 .62 6/17/77 1812 4:00 391 69:01N 60:02W -42067 .617 .11B 6/17/77 2217 8:05 391 50:36N 119:42W -63081 .143 .57		6/17/77	1747	3:35	391	69.06N	50.55W	-42.	.063	•650	•108	6/17/77	2157	7:45	391	52.68N	117.15W	-62.	.185	•379	.49
6/17/77 1807 3:55 391 69.11N 58.13W -42064 .601 .11B 6/17/77 2212 8:00 391 50.93N 118.83W -62158 .255 .62 6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .11B 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1757	3:45	391	69.24N	54.33W	-42.	.070	•698	•108	6/17/77	2202				117.73W	-61.	.189	•389	.49
6/17/77 1812 4:00 391 69.01N 60.02W -42067 .617 .11B 6/17/77 2217 8:05 391 50.36N 119.42W -63081 .143 .57		6/17/77	1905	3:50	391	69.19N	56.23W	-41.	.058	•594	·10B	6/17/77	2207	7:55	391	51.51N	118.29W	-62.	.161	.381	.42
		6/17/77	1807	3:55	391	69.11N	58.13W	-42.	.004	•601	·118	6/17/77	2212	8:00	391	50.93N	118.83W	-62.	.158	•255	.62
6/17/77 2227 8:15 391 49.26N 120.62W -63075 .162 .46		6/17/77	1812	4:00	391	69.01N	60.02W	-42.	.067	•617	•11B	6/17/77	2217	8:05	391	50.36N	119.42W	-63.	.081	.143	.57
												6/17/77	2227	8 15	391	49.26N	120.62W	-63.	.075	•162	.46



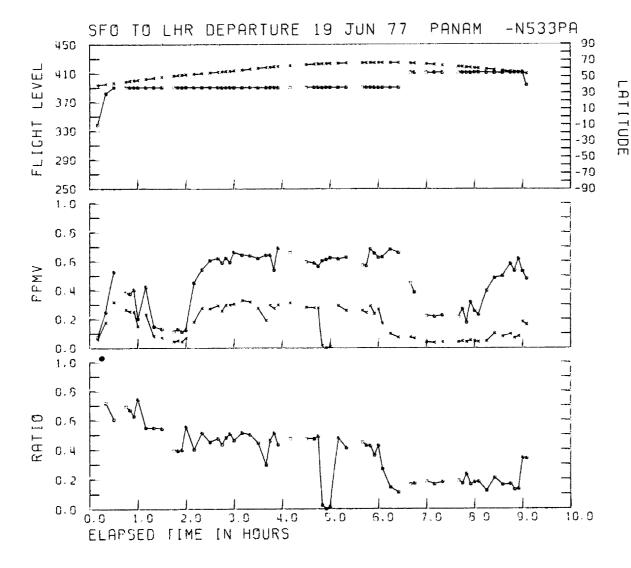
MAXIMUM VALUES: AMBIENT OZONE= .690 CABIN OZONE= .385 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .72 TOTAL OBS IN CABIN: 62 DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(		RATIO
	6/18/77	0146	0:10	361	49.13N	120.70W	-56.	.020	•120	•17	6/18/77	0541	4:05	3 <b>7</b> 0	68.42N	68.19W	-44.	.343	•665	.52
	6/18/77				49.66N	120.08W		.033	•069	• • •	6/18/77	-			68.44N	66.28W		.341	•646	.53
	6/18/77				50.73N	118.89W		,064	•104	•62	6/18/77				68.19N	62.47W		.322	631	.51
	6/18/77				51.85N	117.84W		.070	•106		6/18/77				68.03N	58.69W		.322	•638	.50
	6/18/77				52.97N	116.73W		.064	-100	****	6/18/77				68.07N	54.81W		.331	•623	.53
	6/18/77	-			53.52N	116.17W		.039	• 057		6/18/77	_		-	68.02N	50.88W		.115	•659	.17B
	6/18/77				54.06N	115.59W		.045	•027		6/18/77				67.93N	48.97W		.105	•617	.17B
	6/18/77				55.12N	114.41W		.196	•273	•72	6/18/77			_	67.78N	47.08W		.103	•596	178
	6/18/77	0246	1:10	371	55.65N	113.80W		.289	•531	•54	6/18/77				67.61N	45.20W		.083	•690	.1∠B
	6/18/77	0256			56.73N	112.48W		.245	•393	•62	6/18/77	_			67.41N	43.33W		.110	•646	178
	6/18/77	0306	1:30	371	57.79N	111.08₩		.173	•337	•51	6/18/77				66.98N	39.70W		.096	•635	158
	6/18/77	0316	1:40	371	58.82N	109.62W	-50		•553		6/18/77				66.68N	35.99W		.105	•645	.16B
	6/18/77	0326	1:50	371	59.83N	107.94W		,237	•419	•57	6/18/77				66.30N	32.38W		.108	638	.178
	6/18/77	0331	1:55	370	60.29N	106.95W	-46.	.334	•581	•57	6/18/77		5:50	391	65.77N	28.99W	-51.	.109	•607	188
	6/18/77	0336	5:00	370	60.75N	105.90W	-46.	.353	•580	•61	6/18/77	0731	5:55	390	65.54N	27.27W	-51.	.094	•565	.178
	6/18/77	0341	2:05	370	61.20N	104.83W	-46.	.283	• 464	•61	6/18/77	0736	6:00	390	65.15N	25.76W	-52.	.099	•569	.17B
	6/18/77	0346	2:10	371	61.65N	103.73W	-47.	.197	•383	•51	6/18/77	0741	6:05	390	64.74N	24.30W	-53.	.104	558	.19B
	6/18/77	0356	2:20	371	62.51N	101.41W	-46·	.337	•661	•51	6/18/77	0746	6:10	391	64.32N	22.90W	-55.	.094	•561	.178
	6/18/77	0406	2:30	371	63.36N	99.00W	-44.	.332	•675	•49	6/18/77	0756	6:20	3 <del>9</del> 1	63.47N	20.15W	-55.	.177	•488	.36
	6/18/77	0416	2:40	371	64.19N	96.51W	-45.	.385	•647	•60	6/18/77	0806	6:30	391	62.60N	17.57W	-55.	.217	•431	.50
	6/18/77	0426	2:50	370	64.94N	93.75W	-46.	.336	•638	•53	6/18/77	0816	6:40	391	61.69N	15.16w	-56.	.201	•377	•53
	6/18/77	0431	2:55	370	65.29N	92.30W	-47•	.354	•633	•56	6/18/77	0826	6:50	391	60.75N	12.94W	-56.	.193	•381	.51
5	6/18/77				65.63N	90.81W		•337	•579	•58	6/18/77	0831	6:55	391	60.27N	11.89W	-55.	.238	•503	.47
1	6/18/77		_		65.95N	89.28W		.364	•589	•62	6/18/77	0836	7:00	391	59.78N	10.88W	-54.	.244	•470	.52
	6/18/77	-	_		66.26N	87.72W		.329	•589	•56	6/18/77	0841			59.28N	9.89W	-53.	.215	•512	.42
	6/18/77				66.82N	84.47W		.334	•644	•52	6/18/77	-			58.77N	8.96W	-54.	.225	•488	.46
	6/18/77		_		67.31N	81.09W		.325	•666	• 49	6/18/77				57.75N	7.20W		.251	•541	.46
	6/18/77				67.72N	77.59W		.329	•660	•50	6/18/77				56.69N	5.51W		.206	•419	.49
	6/18/77				68.06N	73.90W		.340	•627	•54	6/18/77				55.67N	3.82₩		.189	•357	.53
	6/18/77	-			68.20N	72.01W		.320	•657	• 49	6/18/77				54.50N	2.59W		.105	•208	.50
	6/18/77	0536	4:00	371	68.32N	70.10W	-46•	.367	•661	•56	6/18/77				53.88N	2.16W		.114	•268	.43
											6/18/77	0935	8:00	324	53.24N	1.77W	-51.	.091	•089	



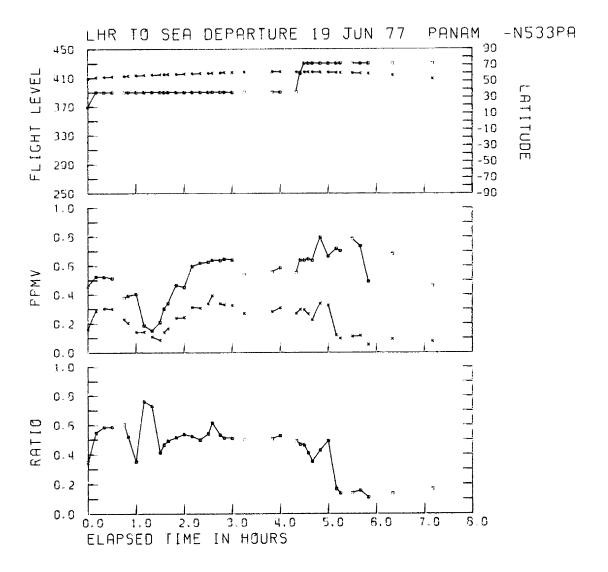
MAXIMUM VALUES: AMBIENT OZONE= .724 CABIN OZONE= .339 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.11 TOTAL OBS IN CABIN: 72 DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE	(PPMV)	RATIO	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	pPMV)	RATIO
			HR:MN				(C)	CABIN	AMB.				HR: MN				(C)	CABIN	AMB.	
	6/18/77				54.96N	3.57W		.108	•243		6/18/77	_			60.91N	75.13W		.094	• 373	.25B
	6/18/77		_	-	55.92N	5.07W		.224	•350	•64	6/18/77	_			60.84N	76.54W		.069	•438	.108
	6/18/77				56.45N	7.24W		.314	•448	• 70	6/18/77				60.66N	79.30W		.108	.724	.158
	6/18/77			_	56.69N	8.42W		.339	•484		6/18/77				60.44N	82.05W		.106	•638	.17B
	6/18/77		-	-	56.92N	9.57W		.301	• 458	•66	6/18/77				60.16N	84.77W		.094	•653	.14B
	6/18/77				57.11N	10.77W	• ,	.307	•496	•62	6/18/77				59.83N	87.42W		.079	•541	.158
	6/18/77	_			57.27N	11.98W		.312	•503	•62	6/18/77				59.65N	88.69W		.032	•290	.118
	6/18/77				57.55N	14.45W		.220	•35l	•63	6/18/77				59.46N	87.96W		.056	•408	.148
	6/18/77	_			57.78N	16.93W		.186	•276		6/18/77	_			59.24N	91.20W		.138	•692	.20B
	6/18/77				57.97N	19.48W		•156	•192		6/18/77				59.01N	92.43W		.106	• 705	.158
	6/18/77		_		58.27N	21.99W		.088	•130		6/18/77				58.51N	94.84W		.095	•723	.13B
	6/18/77		_	-	58.41N	23.20W		•143		1.11	6/18/77				57.94N	97.17W		•077	•625	.128
	6/18/77	_		_	58.55N	24.48W		.080	•108	•74	6/18/77				57.33N	99.44W		.054	•442	.128
	6/18/77	_			58.67N	25.72W	-64.	.081	• 121	•67	6/18/77				57.00N	100.55W		.074	•647	.118
	6/18/77	-			58.79N	27.00W		.089	•157	•57	6/18/77			-	56.29N	102.71W		.084	•675	.128
	6/18/77	1457			58.98N	29.54W	-62.	.094	•184	•51	6/18/77	1937	6:50	410	55.92N	103.77W	-47.	•099	•588	.17B
	6/18/77	1507	2:20	390	59.29N	32.15W	-61•	.137	• 263	•52	6/18/77	1942	6:55	410	55.54N	104.81W	-47.	.093	•591	.16B
	6/18/77	1517			59.59N	34.78W	-62•	.140	•240	•58	6/18/77				55.15N	105.82W	-47.	.078	•672	.12B
	6/18/77	1532	2:45	390	59.93N	38.77W	-60.	.135	• 245	•55	6/18/77	1952	7:05	410	54.75N	106.82W	-49.	.088	•617	.14B
	6/18/77	1537	2:50	390	60.02N	40.08W	-59•	.204	•407	•50	6/18/77	5005	7:15	410	53.93N	108.76W	-49.	.093	•419	.228
	6/18/77	1542	2:55	390	60.19N	41.39W	-59.	.231	•391	•598	6/18/77	2012	7:25	410	53.07N	110.64W	-54.	.103	•586	.18B
	6/18/77	1552	3:05	390	60.51N	44.08W	-55.	.080	• 441	•188	6/18/77	S055			52.03N	112.16W	-56.	.100	•600	.17B
,	6/18/77	1602	3:15	390	60.77N	46.76W	<del>-</del> 57•	.075	• 486	•15B	6/18/77	2032			50.86N	113.33W	-62.	.206	•498	.41
ì	6/18/77	1612	3:25	390	60.97N	49.48W	-55.	.080	• 484	•178	6/18/77				50.29N	113.88W	-62.	.245	•479	.5l
	6/18/77	1622	3:35	390	61.19N	52.25W	<b>-57</b> •	.071	•470	•158	6/18/77	2042			49.70N	114.42W	-63.	194	•474	.41
	6/18/77	1627	3:40	390	61.28N	53.68W	-58.	.085	•460	.188	6/18/77	2047	8:00	410	49.12N	114.96W	-60.	.193	•415	.47
	6/18/77	1632	3:45	390	61.36N	55.14W	-54.	.051	•550	•098	6/18/77	2052	8:05	410	48.54N	115.46W	-59.	.189	•412	.40
	6/18/77	1637	3:50	390	61.42N	56.59W	-52.	.064	•579	•118	6/16/77	2102	8:15	410	47.34N	116.48W	-58.	.173	•417	.41
	6/18/77	1642	3:55	390	61.47N	58.03W	-54.	• 098	•530	.188	6/18/77	2112	8:25	410	46.14N	117.43W	-58.	.190	•516	.37
	6/18/77	1652	4:05	390	61.49N	60.87W	-50 •	.089	•638	•14B	6/18/77	2122	8:35	410	44.99N	118.31W	-57.	.238	.614	.39
	6/18/77	1702	4:15	390	61.42N	63.72W	-49.	.098	• 645	•15B	6/18/77	2132	8:45	410	43.82N	119.16W	-56.	.198	•548	.36
	6/18/77	1712	4:25	390	61.28N	66.58W	-49.	.097	•629	•158	6/18/77	2137	8:50	410	43.24N	119.56W	-55.	.225	•345	.65
	6/18/77	1717	4:30	390	61.19N	67.99W	<b>-50</b> •	.095	•613	•15B	6/18/77	2142	8:55	410	42.66N	119.96W	-55.	.221	•572	.39
	6/18/77	1727	4:40	390	61.03N	70.81W	-48.	.102	•610	•178	6/18/77	2147	9:00	410	42.13N	120.45W	-55.	.217	•564	.38
	6/18/77	1732	4:45	390	61.00N	72.23W	-49.	.085	•523	.168	6/18/77		9:05	<b>4</b> 10	41.60N	120.93W	-56.	.224	•553	.41
	6/18/77	1737	4:50	407	60.96N	73.66W	-47.	.200	•378	•53	6/18/77	2212	9:25	403	39.20N	122.37W	-55.	.222	.620	.36
						_														



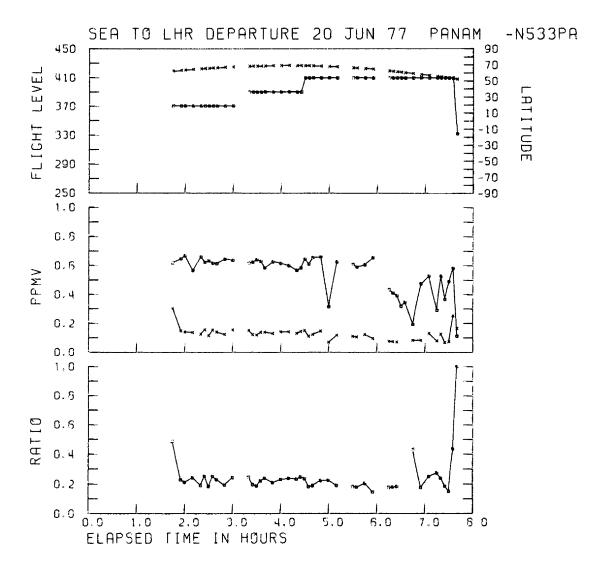
MAXIMUM VALUES: AMBIENT OZONE= .690 CABÍN OZONE= .330 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .74 TOTAL OBS IN CABIN: 65 DATA SOURCE: GASP TAPE VL010, FILE 4

M	O/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE CABIN		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO
	6/19/77	0148	0:10	339	39.61N	121.79W	-52.	.061	• 074		6/19/77	0623	4:45	391	65.47N	75.66W	-48.	.277	•565	.49
	6/19/77				40.82N	121.23W			• 246	.72	6/19/77		4:50	390	65.68N	74.04W		.015	•603	.02
	6/19/77			-	42.07N	120.62W			•526	_	6/19/77		4:55	391	65.87N	72.40W	-48.	.000	•612	.00
	6/19/77		-		43.97N	119.63W		.266	•383		6/19/77		5:00	391	66.04N	70.75W	-47.	•008	•624	0.1
(	6/19/77	0228	0:50	391	44.61N	119.29W		.252	•376	•67	6/19/77	0648	5:10	390	66.34N	61.38W	-47.	.294	.617	.48
	6/19/77	0233	0:55	391	45.25N	118.94W	-61.	.252	•403	•63	6/19/77	0658	5:20	391	66.55N	63.93W	-48.	.259	•628	.41
	6/19/77	0238	1:00	391	45.89N	118.57W	-62.	.150	.202	•74	6/19/77	0718	5:40	391	66.88N	56.83W	-47.	.259	.574	.45
	6/19/77	0248	1:10	391	47.16N	117.82W	-60.	.232	•423	•55	6/19/77	0723	5:45	391	66.93N	55.03W	-47.	.244	•569	.43
	6/19/77	0258	1:20	391	48.40N	116.94W	-63•	.081	•148	•55	6/19/77	0728	5:50	390	66.96N	53.19W	-47.	.291	•684	.43
	6/19/77	0308	1:30	391	49.59N	115.95W	-63.	.071	•131	•54	6/19/77	0733	5:55	390	66.97N	51.33W	-48.	.237	•656	.36
	6/19/77	0323	-		51.06N	113.84W	-62•	.045	•114	• 39	6/19/77				67.02N	49.43#		.268	•627	.43
	6/19/77				51.53N	113.10W			•130		6/19/77				67.06N	47.58W		.169	•630	.27B
	6/19/77	-	-	_	51.99N	112.35W		.045	•113		6/19/77			_	67.07N	43.81W		• 099	•683	.14B
	6/19/77				52.44N	111.60W		.069	•125		6/19/77				67.00N	40.05W		.073	•660	.118
	6/19/77	-			53.26N	110.03W	-	.180	• 449		6/19/77				66.55N	34.58W		•074	•450	.168
	6/19/77				54.04N	108.30W		.277	•541	-51	6/19/77		_		66.36N	34.84W		.066	•386	.178
	6/19/77		•		54.80N	106.45W		.273	•605		6/19/77		4 79		65.51N	27.96W		.041	•223	.188
	6/19/77				55.58N	104.57W		.294	•620		6/19/77	_			64.73N	25.06W		•036	•217	.178
	6/19/77		-		55.96N	103.58W			•590		6/19/77				63.91N	22.36W		•041	• 227	.188
	6/19/77			_	56.33N	102.58W			•622		6/19/77				62.23N	1/.28W		.041	•216	.198
	6/19/77				56.70N	101.55W		.300	•592		6/19/77				61.78N	16.10W		.046	•270	.178
~	6/19/77				57.15N	100.65W		.306	•662		6/19/77				61.33N	14.95W		.041	•176	.23B
	6/19/77				58.22N	99.05W		.330	•643		6/19/77				60.86N	13.85W		.052	•317	.168
_	6/19/77		_	_	59.27N	97.37W		.320	•638		6/19/17				60.38N	12.80W		.046	• 257	.18B
	6/19/77		_		60.31N	95.55W		.276	•620		6/19/77				59.89N	11.76W		.042	•231	.18B
	6/19/77				61.30N	93.50W		.190	•642		6/19/77	-			58.92N	9.85W		.048	• 396	.128
	6/19/77	-			61.70N	92.31W		.296	•643	_	6/19/77				57.91N	8.08W		.101	•486	.218
	6/19/77		-		62.09N	91.08W		.275	•539		6/19/77				56.86N	6.44W		.080	•499	.16B
	6/19/77			-	62.47N	89.83W		.300	•690		6/19/77				55.86N	4.77W		•097	•583	.17B
	6/19/77	-			63.56N	85.97W		.313	•661	• 47	6/19/77		7 (7)		55.32N	4.11W		.069	•534	.138
	6/19/77	-		-	64.75N	80.23W		.282	•597		6/19/77		-		54.72N	3.54W		.082	-617	138
(	6/19/77	0618	4:40	391	65.25N	77.22W	-48-	.278	•588	• 47	6/19/77				54.10N	3.06W		.181	•531	. 34
											6/19/77	1043	9:05	394	53.47N	5.60M	-50.	.163	•480	•34



MAXIMUM VALUES: AMBIENT OZONE= .795 CABIN OZONE= .392 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .76 TOTAL OBS IN CABIN: 3B DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE

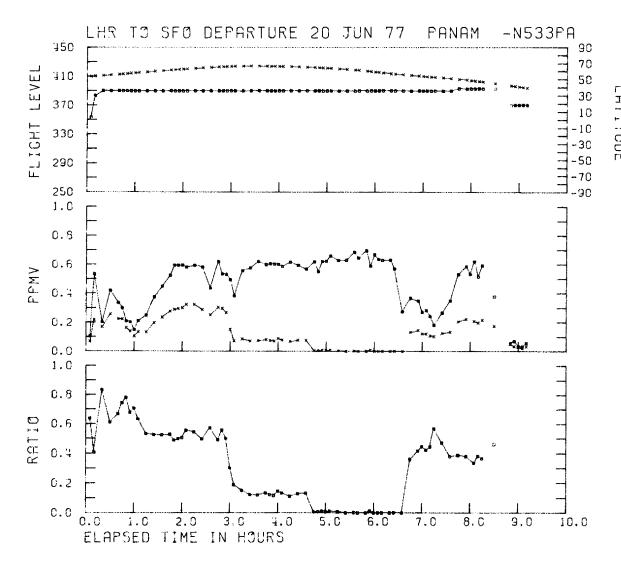
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)		(PPMV) • 8MB	RATIO	MOZDAZYR	GMT	ETIM HŘ:MN	FL	L.A.T	LONG		OZONE (		RATIO
6/19/77				53.31N	1.73W		-			6/19/77				60.49N	43.79W		.329	•645	
6/19/77				54.84N	3.66W		.287			6/19/77				60.77N	46.67W		.325	-640	· .
6/19/77	0024M	0:24	390	55.30N	5.94W	<b>~</b> 51•	.305	•522	•58	6/19/77				61.11N	51.03W		.270	•539	,50
6/19/77	0034M	0:34	390	55.72N	8.25W	-54•	.301	•513	•59	6/19/77	0354M	a. +	-	61.50N	61.14w		.281	•558	.50
6/19/77	0049M	0:49	390	56.42N	11.70W	~57•	.229	•377	•61	6/19/77	0404M	4:04	390	61.42N	63.95W	-51.	.308	•586	.53
6/19/77	0054M	0:54	390	56.69N	12.88W	~58•	.204	•392	•52	6/19/77	0424M	4:24	390	61.08N	69.46W	-52.	.270	•553	.49
6/19/77	0104M	1:04	390	57.17N	15.16W	-61.	.142	•404	•35	6/19/77	0429M	4:29	416	61.05N	70.83W	-49.	.297	•638	.47
6/19/77	0114M	1:14	390	57.61N	17.55W	<b>~</b> 63∙	.142	•187	•76	6/19/77	0434M	4:34	430	61.02N	72.29W	-49.	.294	•638	.46
6/19/77	0124M	1:24	390	58.00N	19.94W	-63.	.110	•151	•73	6/19/77	0439M	4:39	430	60.98N	73.69W	-49.	.264	-647	.41
6/19/77	0134M	1:34	390	58.33N	22.45W	-61.	.086	•209	•41	6/19/77	0444M	4:44	430	60.93N	75.09W	-49.	.224	•637	. 35
6/19/77	0139M	1:39	390	58.48N	23.69W	~58•	.140	•302	• 46	6/19/77	0454M	4:54	430	60.78N	77.88W	-49.	.339	• 795	.43
6/19/77	0144M	1:44	390	58.61N	24.97W	<b>-60</b> •	.166	• 339	•49	6/19/77	0504M	5:04	430	60.57N	80.70W	-49.	.326	•666	.49
6/19/77	0154M	1:54	390	58.84N	27.51W	~58.	. 239	•465	•51	6/19/77	0514M	5:14	430	60.33N	83.41W	-50.	.120	•718	.17B
6/19/77	0204M	2:04	390	59.03N	30.10W	-55.	.242	•451	•54	6/19/77	0519M	5:19	430	60.18N	84.78w	-50.	.097	•703	.14B
6/19/77	0214M	2:14	390	59.37N	32.70W	<del>-</del> 55•	.312	•597	•52	6/19/77	0530M	5:30	430	59.80N	87.81W	-49.	.110	•785	.14B
6/19/77	0224M	2:24	390	59.66N	35.41W	-51.	.307	•618	•50	6/19/77	0540M	5:40	430	59.42N	90.37W	-49.	.115	• 736	.168
6/19/77	0234M	2:34	390	59.89N	38.13W	-49.	.337	•625	•54	6/19/77	0550M	5:50	430	58.95N	92.90W	-48.	.054	•492	.11B
6/19/77	0239M	2:39	390	59.99N	39.57W	-47.	.392	•638	•61	6/19/77	0624M	6:24	430	56.92N	101.01w	<b>-51.</b>	.093	•682	.14B
6/19/77	0249M	2:49	390	60.32N	42.35W	-46.	.338	•637	•53	6/19/77	0714M	7:14	430	52.89N	110.64W	-55.	.077	•463	.17B



MAXIMUM VALUES: AMBIENT OZONE = .667 CABIN OZONE = .301 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.48 TOTAL OBS IN CABIN: 43
DATA SOURCE: GASP TAPE VL010, FILE 4

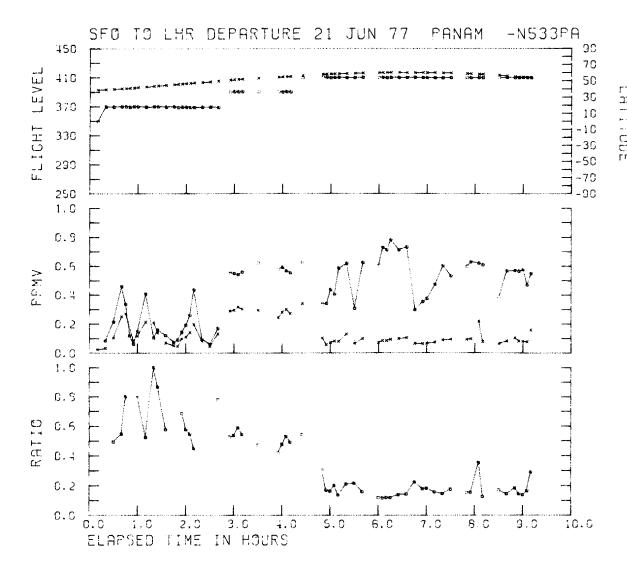
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

٨	40/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (			MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		UZONE (		RATIO
	6/20/77	0345	1:45	371	62.44N	101.66W	-46.	.301	•619	•49	6/20/77	0635	4:35	410	68.85N	44.38W	-44.	.111	•610	.18B
	6/20/77	0355	1:55	370	63.26N	99.33W	-44.	.148	•646	•238	6/20/77	0640	4:40	410	68.73N	42.36W	-44.	.124	•656	.19B
	6/20/77	0400	5:00	371	63.69N	98.11W	-43.	.141	•667	•218	6/20/77	0650	4:50	410	68.44N	38.54W	-45.	.147	<ul><li>660.</li></ul>	.22B
	6/20/77	0410	2:10	371	64.50N	95.56W	-43.	.137	•565	•24B	6/20/77	0700	5:00	410	68.04N	34.80W	-46.	.071	•316	.228
	6/20/77	0420	2:20	371	65.21N	92.82W	-44.	• İ26	•659	•19B	6/20/77	0710	5:10	410	67.58N	31.24W	-48.	.119	•624	.19B
	6/20/77	0425	2:25	371	65.54N	91.40W	-46.	.156	•622	•25B	6/20/77	0730	5:30	410	66.44N	24.40W	-48.	•111	•608	.16B
	6/20/77	0430	2:30	371	65.85N	89.93W	-46.	.116	•632	•188	6/20/77	0735	5:35	410	66.11N	22.75W	-49.	.106	·590·	.188
	6/20/77	0435	2:35	371	66.16N	88.43W	-48.	.154	•615	•25B	6/20/77	0745	5:45	410	65.44N	19.61W	-48.	.124	•605	.208
	6/20/77	0440	2:40	371	66.45N	86.91W	-50.	.141	•613	•238	6/20/77	0755	5:55	410	64.71N	16.67W	-52.	.096	•655	.158
	6/20/77	0450	2:50	370	66.98N	83.74W	-51.	.124	•644	•19B	6/20/77	0815	6:15	410	62.68N	12.24W	-53.	.077	•435	.188
	6/20/77	0500	3:00	371	67.44N	80.44W	-52•	.155	•636	•24B	6/20/77	0880	0ءَ: 6	410	62.10N	11.34W	-54.	.074	•411	.18B
	6/20/77	0520	3:20	390	68.16N	73.34W	-48.	.152	•617	•25B	6/20/77	0825	6:25	410	61.52N	10.48W	-53.	.072	.392	.188
	6/20/77	0525	3:25	390	68.29N	71.52W	-49.	.123	•624	•508	6/20/77	0830	6:30	410	60.94N	9.66W	-55.		•320	
	6/20/77	0530	3:30	390	68.40N	69.67W	-48.	.120	•640	•19B	6/20/77	0835	6:35	410	60.38N	5.83W	<del>-</del> 56.		.345	
	6/20/77	0535	3:35	390	68.49N	67.79W	-47.	.139	•628	•228	6/20/77	0845	6:45	410	59.23N	7.26W	-53.	.084	•194	.43B
	6/20/77	0540	3:40	390	68.60N	65.91W	-48.	.140	•585	•24B	6/20/77	0855	6:55	410	58.06N	5.95W	-55.	.084	•474	.18B
	6/20/77	0550	3:50	390	68.90N	62.15W	-46.	.131	•625	•218	6/20/77				56.87N	4.70W		.132	•528	.25B
	6/20/77	0600	4:00	390	69.14N	58.33W	<b>~</b> 45•	.142	•615	•23B	6/20/77	0915	7:15	410	55.72N	3.44W	-53.	.080	•292	.27B
	6/20/77	0610	4:10	390	69.28N	54.33W	-44.	.142	•599	•24B	6/20/77	0920	7:20	410	55.10N	2.97W	-53.	.126	•526	.24B
	6/20/77	0620	4:20	390	69.10N	50.31W	-44.	.132	•567	•23B	6/20/77	0925	7:25	410	54.48N	2.51W	-52.	.068	•367	.19B
	6/20/77	0625	4:25	390	69.02N	48.38W	~45.	.144	•583	•25B	6/20/77	0930	7:30	410	53.83N	\$.20W	-54.	.074	•491	.158
	6/20/77	0630	4:30	410	68.95N	46.38W	~45.	.152	•644	•24B	6/20/77	0935	7:35	410	53.17N	1.93W	-52.	.253	•581	.44
ຸ້ນ ວິດ											6/20/77	0941A	7:41	333	52.39N	j-60M	-54.	.167	•113	1.45



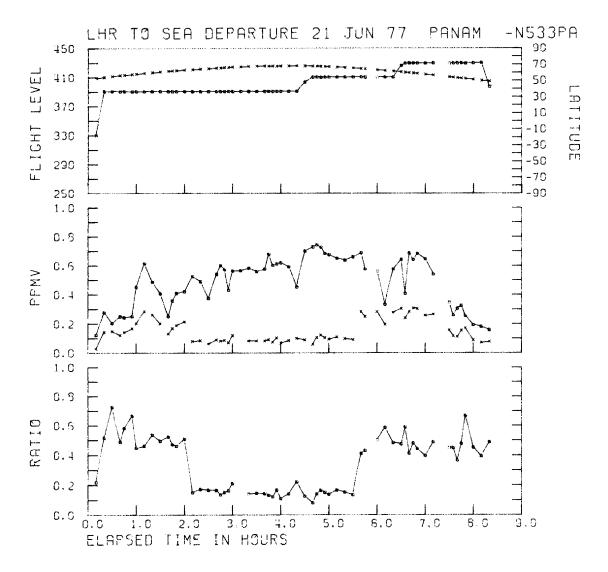
MAXIMUM VALUES: AMBIENT OZONE= .696 CABIN OZONE= .323 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .83 TOTAL OBS IN CABIN: 73 DATA SOURCE: GASP TAPE VL010, FILE 4

		-		-		,														
į	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (	PMV)	RATIO
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				,	• · · · · · · · · · · · · · · · · · · ·										•		
	6/20/77	1255	0:05	353	53.72N	2.11w	-59.	.067	•105	•64	6/20/77	1735	4:45	390	65.02N	18.64W	-50.	.005	•619	.01B
	6/20/77	1300	0:10	383	54.28N	2.77W	-58.	.218	•531	•41	6/20/77	1740	4:50	390	64.77N	80.14W	-49.	.005	•551	.018
	6/20/77	1310	0:20	390	55.12N	4.59W	-57.	.169	•203	•83	6/20/77	1745	4:55	390	64.52N	81.62W	-48.	.007	•621	.01B
	6/20/77	1320	0:30	390	55.82N	6.67W	-58•	.257	•420	•61	6/20/77	1750	5:00	390	64.25N	83.07W	-49.	.006	•623	.01B
	6/20/77	1330	0:40	390	56.58N	8.73W	-61.	.225	• 337	•67	6/20/77	1755	5:05	390	63.93N	84.48W	-48.	.007	•660	.01B
	6/20/77	1335	0:45	390	56.90N	9.67W	-61.	.224	•301	•74	6/20/77	1805	5:15	390	63.24N	87.16W	-46.	.005	•629	.01
	6/20/77	1340	0:50	390	57.37N	10.75W	-61.	.164	•210	.78	6/20/77	1815	5:25	390	62.49N	89.71W	-46.	.000	•630	.00
	6/20/77	1345	0:55	390	57.81N	11.70W	-62.	.139	•205	•68	6/20/77	1825			61.73N	92.16W	-45.	.002	•685	.00
	6/20/77	1350	1:00	390	58.25N	12.67W	-63•	.106	•150	•71	6/20/77				61.34N	93.34W		.000	•647	.00
	6/20/77	-	1:05	390	58.67N	13.66W	-61.	.134	•211	• 64	6/20/77				60.38N	95.38W		.000	•696	.00
	6/20/77	1405	1:15	390	59.48N	15.67W	-60•	.133	•249	•53	6/20/77	1845			59.85N	96.32W	-48.	.008	•590	.01
	6/20/77	1415	1:25	390	60.25N	17.75W	-61.	.197	•374	•53	6/20/77				59.32N	97.23W		.000	•657	.00
	6/20/77	1425	1:35	390	60.88N	19.63W	-59•		• 449		6/20/77				58.78N	98.11W		.000	•638	.00
	6/20/77				61.79N	22.22W	-55•	.277	•524	•53	6/20/77	-			58.22N	98.99W		•000	•630	. O U
	6/20/77				62.18N	23.40W			•593		6/20/77				57.13N	100.64W		•000	•631	.00
	6/20/77				62.56N	24.62W			•593		6/20/77				56.69N	101.57W		.001	•570	.00
	6/20/77				62.93N	25.86W	-51.		•595		6/20/77		and the second		55.98N	103.62W		.000	•274	.00
	6/20/77	_	_		63.28N	27.14W			•582		6/20/77				55.25N	105.56W		.133	•368	.36
	6/20/77				63.97N	29.84W	_		•593		6/20/77				54.50N	10/.39W		.146	• 349	.42
	6/20/77	-			64.63N	32.60W		-	•582		6/20/77				54.08N	108.18W		.122	•273	.45
	6/20/77				65.24N	35.56W			•438		6/20/77			-	53.52N	108.76W		.121	•285	.42
>	6/20/77				65.78N	38.59W			•619		6/20/77				53.17N	109.64W		.109	•245	. 44
<u> </u>	6/20/77				66.02N	40.16W			•534		6/20/77				52.88N	110.58W		.104	•183	.57
öi	6/20/77	_			66.23N	41.78W			•532	-	6/20/17				52.13N	112.18W		.126	•267	. 47
	6/20/77	_			66.42N	43.43W	_		•495		6/20/77				51.22N	113.61W		.134	•350	.38
	6/20/77	-			66.60N	45.14W			•384		6/20/77				50.31N	114.97W		.207	•532	.39
	6/20/77	_			66.89N	48.47W			•556		6/20/77				49.31N	116.21W		•224	•586	.38
	6/20/77	_			66.97N	51.97W			•575		6/20/77				48.72N	116.66W		214	•534	<b>~</b> 6
	6/20/77	_			66.92N	55.43W			•620		6/20/77		and the same of th		48.13N	117.10w			•621	• 34
	6/20/77				66.79N	58.93W			•600		6/20/77				47.52N	11/.54W		.198	•517	.38
	6/20/77		-		66.71N	60.66W			•605		6/20/77				46.88N	117.99W		.218	•592	.37
	6/20/77				66.63N	62.38W			•603	•12B	6/20/77	-			44.97N	119.25W		.175	•379	.46
	6/20/77				66.55N	64.07W			•601	•15B	6/20/77	-			42.27N	120.91W		.051	•061	
	6/20/77				66.45N	65.75W			•587		6/20/77				41.57N	121.31W		.035	•071	
	6/20/77	-, -			66.19N	69.10W			•616		6/20/77				40.88N	121.70W		.031	•036	
	6/20/77				65.86N	72.37W			•594		6/20/77	_			40.18N	122.08W		.021	•034	
	6/20/77	1/25	4:35	390	65.47N	75.56W	-50•	.076	•568	•138	6/20/77	2200	3:10	310	39.46N	122.37W	-55.	.033	• 057	



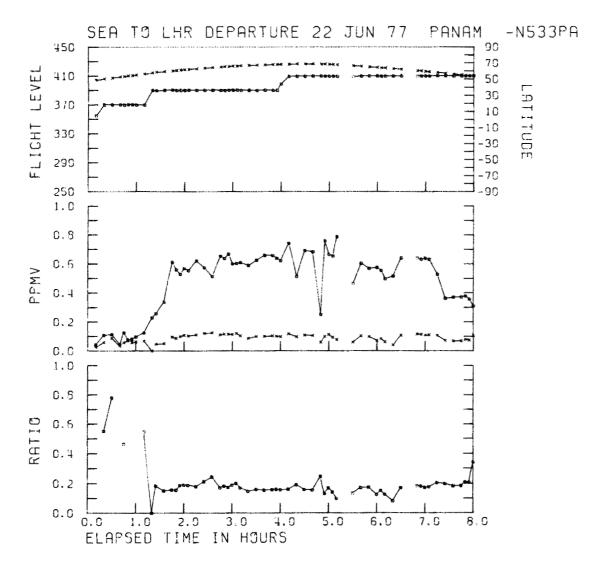
MAXIMUM VALUES: AMBIENT OZONE= .780 CABIN OZONE= .341 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.98 TOTAL OBS IN CABIN: 61 DATA SOURCE: GASP TAPE VL010, FILE 4

1	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	CABIN OZONE		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
	6/21/77			-	38.73N	120.04W		.025			6/21/77				58.00N	68.78W			•338	.30B
	6/21/77				39.24N	118.55W		.034	• 086		6/21/77				58.21N	6/.57W		.058	• 341	.17B
	6/21/77				39.74N	117.02W		.106	•214	•50	6/21/77				58.38N	66.27W		.072	•437	.16B
	6/21/77				40.29N	115.50W		.251	• 459	•55	6/21/77				58.53N	65.01W		-082	•407	.20B
	6/21/77				40.67N	114.81W		.270	•337	•80	6/21/77		-		58.68N	63.68W		.080	•584	.14B
	6/21/77				41.05N	114.06W			•121		6/21/77	-			58.92N	61.03W		.131	•618	.21B
	6/21/77	_			41.47N	113.35W		.083	•063		6/21/77				59.21N	58.41W		.067	•308	.22B
	6/21/77				41.69N	112.64W		.118	•148		6/21/77				59.52N	55.76W		.100	•623	.16B
	6/21/77				42.73N	111.16W		.214	• 4 O B	•52	6/21/77				59.98N	50.23W		.073	•604	.12B
	6/21/77				43.54N	109.66W		.210		1.98	6/21/77				60.04N	48.85W		.085	•727	.12B
	6/21/77				43.93N	108.91W		.139	•160		6/21/77				60.07N	47.46W		.085	•712	.128
	6/21/77			_	44.70N	107.36W		.071	•123	•58	6/21/77		_		60.09N	46.09W		.093	•780	.12B
	6/21/77	_			45.45N	105.79W		.052	•075		6/21/77				60.08N	43.28W		.099	•712	.148
	6/21/77				45.93N	104.76W		.048	•091		6/21/77				60.02N	40.53W		.105	•731	.14B
	6/21/77	-		_	46.48N	103.67W		.099	-144	•69	6/21/77				60.07N	37.67W		.067	• 298	.22B
	6/21/77			_	46.73N	102.62W		• 111	•192	•58	6/21/77				60.09N	34.83W		.064	• 355	.188
	6/21/77				47.11N	101.69W	_	.142	•260	•55	6/21/77			-	60.08N	33.39W		.069	• 376	.188
	6/21/77			-	47.49N	100.76W	-	.197	•436	• 45	6/21/77				60.02N	30.57W		.075	•473	.168
	6/21/77				48.22N	98.90W		.084	• 095		6/21/77				59.84N	27.71W		.089	•605	.15B
	6/21/77				48.88N	97.07W	-	.048	• 062		6/21/77				59.59N	24.92W		.094	•533	.18B
	6/21/77				49.87N	95.65W		.132	•169	.78	6/21/77				58.93N	19.53W		.093	•600	.16B
_	6/21/77				51.21N	93.37W		.291	•553	•53	6/21/77				58.72N	18.25W		.098	•629	.16B
2	6/21/77				51.54N	92.42W		.295	•550	•54	6/21/77				58.27N	15.76W		.220	•621	.35B
57	6/21/77				51.87N	91.44W		.318	•541	•59	6/21/77				58.02N	14.49W		.078	•610	.13B
	6/21/77				52.19N	90.44W		.304	•559	-54	6/21/77				56.94N	9.82W		.066	•387	.17B
	6/21/77				53.39N	86.32W		.295	•624	• 47	6/21/77				55.95N	8.10W		.083	• <b>56</b> 8	.15B
	6/21/77				54.66N	80.98W		.244	•579	• 42	6/21/77			_	54.99N	6.43W		.105	•571	.18B
	6/21/77				54.90N	79.84W	_	. 282	•592	• 48	6/21/77				54.49N	5.66W		.083	•566	.158
	6/21/77				55.12N	78.68W	,	.301	•568	•53	6/21/77				54.16N	4.67W		.080	•575	.14B
	6/21/77	-			55.33N	77.59W		.273	•554	•49	6/21/77				53.76N	3.77W		.078	• 471	.17
	6/21/77	0604	4:28	410	56.40N	74.44W	-51•	.341	•629	•54	6/21/77	1049	9:13	410	53.37N	2.85W	-55.	.159	•548	•29



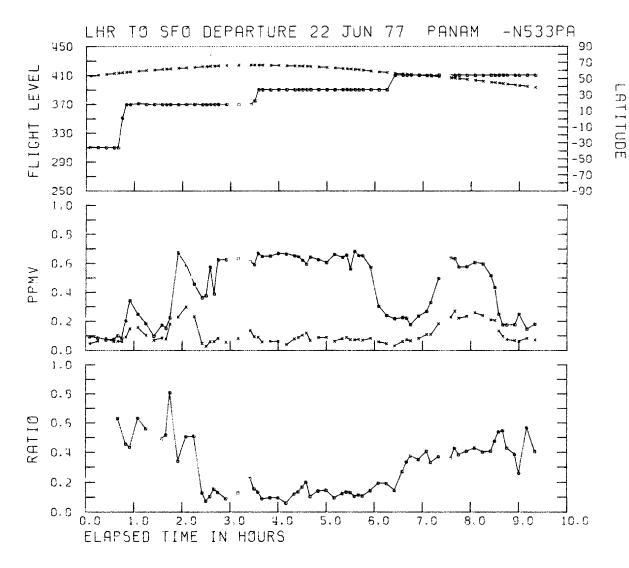
MAXIMUM VALUES: AMBIENT OZONE= .743 CABIN OZONE= .308 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .73 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL010, FILE 4

1	MO/DA/YR	GMT	ETIM	FL	LAT	LONG		OZONE (		RATIO	MOZDAZYŔ	GMT	ETIM	۴L	LAT	LONG		OZONE (		RAT10
			HR:MN				(C)	CABIN	AMB.				HR:MN				(C)	CABIN	AMB.	
	6/21/77	1345	0:10	330	53.40N	1.79W	-52•	.027	•123	•22	6/21/77	1745	4:10	391	68.33N	64.26W	-49.	.084	•593	.14B
	6/21/77	1355	0:20	391	54.50N	3.04W	-61.	.143	•277	•52	6/21/77	1755	4:20	391	68.44N	67.80W	-50.	.100	•453	.248
	6/21/77	1405	0:30	391	55.57N	4.47W	-62.	.149	•205	•73	6/21/77	1805	4:30	404	68.26N	71.35W	~48.	.089	•701	.138
	6/21/77	1415	0:40	391	56.61N	6.00W	-62•	.122	•250	•49	6/21/77	1815	4:40	410	67.99N	74.91W	-49.	.059	•729	• 08B
	6/21/77	1420	0:45	391	57.09N	6.74W	-62•	.142	•244	•58	6/21/77	1820	4:45	410	67.83N	76.66W	-48.	.105	•743	.14B
	6/21/77		0:55	391	58.06N	8.34W	-62•	.168	•252	•67	6/21/77	1825	4:50	410	67.65N	78.39W	-49.	.121	•728	.178
	6/21/77	-	1:00	391	58.54N	9.17W	-58•	.203	• 452	• 45	6/21/77				67.45N	80.11W		.104	•684	.15B
	6/21/77		1:10	391	59.47N	10.96W	-58•	.284	•615	• 46	6/21/77				67.22N	81.81M		.094	•676	.14B
	6/21/77		-		60.35N	12.91W		.262	•488	•54	6/21/77				66.72N	85.15W		.109	•651	.17B
	6/21/77	_		_	61.18N	14.88W	-62.	.202	•408	•50	6/21/77				66.16N	88.28₩		.098	•638	.158
	6/21/77		-		61.97N	16.94W		.132	• 252		6/21/77				65.52N	91.31W		.090	•661	.14B
	6/21/77				62.36N	18.04W		.169	• 358	• 47	6/21/77				64.79N	94.18W		.283	•689	.41
	6/21/77				62.74N	19.16W		.189	•410	• 46	6/21/77				64.41N	95.57W		.249	•577	.43
	6/21/77	-			63.40N	21.60W		.215	•422		6/21/77				63.17N	99.53W		.282	•561	.50
	6/21/77				64.00N	24.33W		.080	•526	•15B	6/21/77				62.32N	101.98M		.195	• 333	•59
	6/21/77	-			64.53N	27.13W		.085	•491		6/21/77				61.45N	104.25W		.278	•576	.48
	6/21/77				65.03N	30.09W		.063	• 375	•17B	6/21/77				60.56N	106.37W		•305	•643	.47
	6/21/77	-			65.71N	32.99W		.090	•541	•17B	6/21/77				60.10N	107.40W		.240	•408	•59
	6/21/77				66.04N	34.53W		.082	•601	•14B	6/21/77				59.65N	108.37W		.283	•687	.41
	6/21/77				66.34N	36.09W		.087	•573	• 158	6/21/77				59.13N	109.20₩		.308	•641	.48
	6/21/77				66.63N	37.67W		.071	• 432		6/21/77				58.60N	110.01W		.304	•684	.44
_	6/21/77				66.90N	39.29W		.119	•563	•21B	6/21/77		_		57.53N	111.59W		.257	•647	.40
5	6/21/77				67.35N	42.71W			•566		6/21/77				56.47N	113.04W		.265	•543	• 49
5	6/21/77				67.72N	46.22W		.083	•583	• 1 4B	6/21/77				54.33N	115.68W		.156	• 346	.45
	6/21/77				68.00N	49.79W		.082	•560	•15B	6/21/77				53.80N	116.28W		.117	•260	.45
	6/21/77				68.08N	53.45W		.083	•576	•14B	6/21/77				53.27N	116.87W		•112	•305	.37
	6/21/77	_	_		68.09N	55.30W		.091	•679	•13B	6/21/77				52.73N	117.44W		.155	•325	. 4 B
	6/21/77		-		68.08N	57.14W		.074	•603	·128	6/21/77				52.20N	118.00W		.170	• 255	.67
	6/21/77				68.04N	58.94W		.103	•613	•17B	6/21/77		-		51.13N	119.07W		.087	•192	. 45
	6/21/77	1735	4:00	391	68.05N	60.73W	-47.	.069	•620	•11B	6/21/77				50.06N	120.09W		.071	•180	•39
											6/21/77	2155	8:50	397	48.99N	121.05W	-60.	.077	•158	.49



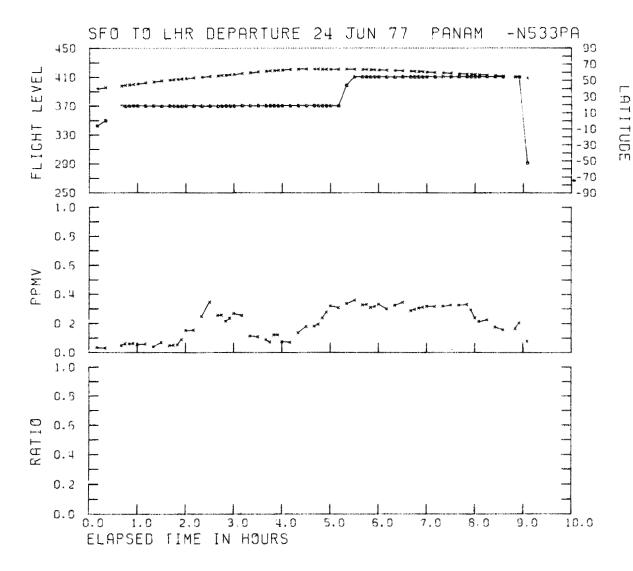
MAXIMUM VALUES: AMBIENT OZONE= .787 CABIN OZONE= .125 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .78 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO
	6/22/77	0134	0:10	355	49.07N	120.62W	-52•	.026	•044		6/22/77				68.41N	68.29W			•639	.16B
	6/22/77	0144	0:20	370	50.33N	119.31W	-55•	.059	•107	•55	6/22/77				68.51N	60.42W		.098	•625	.16B
	6/22/77	0154	0:30	370	51.62N	118.07W	-54.	.088	•113	•78	6/22/77	0534			68.83N	62.67W		.119	•742	.16B
	6/22/77	0204	0:40	370	52.92N	116.79W	-55.	.033	• 045		6/22/77		-		69.U3N	58.82W		.098	•514	.198
	6/22/77	0209			53.57N	116.12W	-54	.058	•125	• 46	6/22/77				69.07N	54.84W		.109	•691	.16B
	6/22/77	0214	0:50	371	54.20N	115.44W	-55•	.071	•077		6/22/77				69.02N	50.89W		.106	•683	.168
	6/22/77	0219	0:55	370	54.83N	114.74W	-55•	.059	•081		6/22/77				68.78N	47.07W	-42.	.062	.251	.258
	6/22/77	0224	1:00	370	55.45N	114.03W	-55•	•063	• 097		6/22/17	0619			68.60N	45.21W		.099	•758	.13B
	6/22/17	0234	1:10	370	56.68N	112.53W	-55•	.069	•126	•55	6/22/17				68.41N	43.37W		.113	•666	.17B
	6/22/77	0244	1:20	390	57.08N	110.96W	-55•	.000	• 229	• 0 0	6/22/77	0629			68.20N	41.55W		•093	•654	.14B
	6/22/77	0253	1:29	390	58.95N	109.43W	<del>-55</del> •	.047	•258	•18B	6/22/77	0634	2:10	410	67.96N	39.76W	-42.	.077	•787	.108
	6/22/77	0259	1:35	390	59.56N	108.50W	-54.	.051	• 339	•15B	6/22/77		5:30	409	66.75N	33.22W		.062	•464	, 13B
	6/22/77	0309	1:45	391	60.50N	106.47W	-53·	.096	•612	•16B	6/22/77			* .	66.05N	30.23W		.104	•604	.178
	6/22/77	0314	1:50	390	60.96N	105.41W	-55•	.087	•560	•16B	6/22/77		5:50	410	65.38N	27.45W	-45.	.099	•569	•17B
	6/22/77	0319	1:55	390	61.43N	104.28W	-56•	.099	•529	•19B	6/22/77				64.64N	24.77W	-45.	.072	•576	.13B
	6/22/77	0324	2:00	390	61.86N	103.18W	-53•	.108	•567	<ul><li>198</li></ul>	6/22/17				64.25N	23.46W	-46.	.084	•555	.158
	6/22/77	0329	2:05	390	62.28N	102.05W	-51.	.104	•554	•198	6/22/77		6:10	410	63.86N	22.17W	-49.	.063	•49H	.138
	6/22/77	0339	2:15	390	63.10N	99.72W	<b>~50•</b>	.111	•620	•18 <del>8</del>	6/22/77		6:20	410	080.E	19.69W	-49.	.042	•516	.08B
	6/22/77	0349	2:25	390	63.92N	97.36W	-46.	.122	•574	-218	6/22/77	0754	6:30	410	62.26N	17.37W	-52.	.109	•640	.17B
	6/22/77	0359	2:35	390	64.69N	94.73W	-45.	.125	•514	•248	6/22/77	0814	6:50	410	60.55N	13.16W	-54.	.117	•640	.188
	6/22/77	0409	2:45	390	65.37N	91.96W	-45.	.112	•653	•17B	6/22/77	0819	6:55	410	60.09N	12.17W	-55.	.114	•632	.188
	6/22/77	0414	2:50	390	65.69N	90.50W	-46.	.116	•637	•18B	6/22/77				59.62N	11.21W	-54.	.110	•639	.178
5	6/22/77	0419	2:55	391	66.00N	89.01W	-46.	.116	•668	•17B	6/22/77	0829	7:05	410	59.14N	10.27w	-55.	.111	•631	.18B
ž	6/22/77		3:00	391	66.30N	87.49W	-45•	-114	•601	•19B	6/22/77				58.17N	8.52W		.108	•529	.208
	6/22/77	0429	3:05	391	66.58N	85.95W	-47.	.121	•603	·20B	6/22/77	0849			57.08N	7.14W		.072	• 364	.20B
	6/22/77	0434	-		66.84N	84.35W	-48.	.104	•609	•17B	6/22/77				56.10N	5.44W		.068	•371	.188
	6/22/77	0444	3:20	390	67.32N	81.03W	-49.	.087	•590	•15B	6/22/77				55.00N	4.01W		.069	•372	.19B
	6/22/77	0454	3:30	390	67.73N	77.50W	-49.	.100	•625	•16B	6/22/77		7:50	410	54.41N	3.38W	-55.	.079	•379	.218
	6/22/77	0504	3:40	391	68.06N	73.90W	-48.	.102	•659	•15B	6/22/17		7:55	410	53.88N	2.69W	-53.	.074	•358	.218
	6/22/77	0514	3:50	390	68.32N	70.18W	-46.	.104	•658	•16B	6/22/77	0924	8:00	410	53.28N	2 34W	-53.	.106	•311	. 34



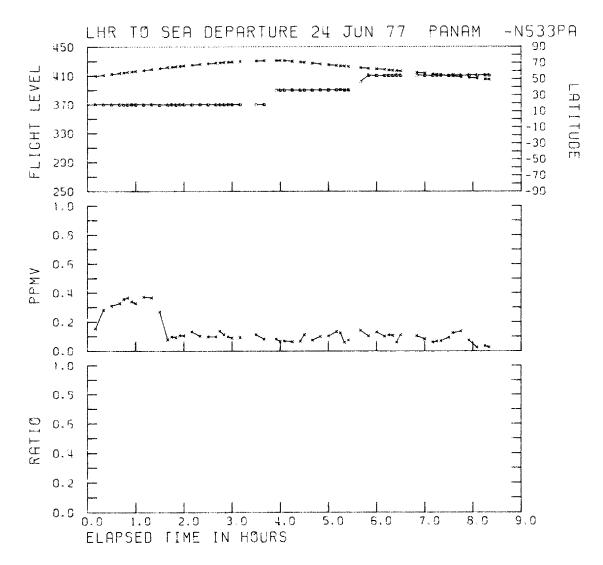
MAXIMUM VALUES: AMBIENT OZONE= .683 CABIN OZONE= .298 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .81 TOTAL OBS IN CABIN: 71 DATA SOURCE: GASP TAPE VL010, FILE 4

		,																		
	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	PMV)	RATIO
			HR:MN				(C)	CARIN	AMB.				HR:MN				(C)	CABIN	AMB.	
	6/22/77	1240	0:05	310	53.29N	1.80W	-48.	.047	• 093		6/22/77				65.08N	78.30W		.067	•644	.108
	6/22/77				54.48N	2.97W		.064	• 086		6/22/77		_		64.58N	81.26W		.089	•627	.14B
	6/22/77				55.63N	4.26W		.082	•073		6/22/77				64.01N	84.16W		•089	•606	.15B
	6/22/77				56.68N	5.83W		.061	• 076		6/22/77			_	63.31N	86.89W		.063	•661	.10B
	6/22/77		-		57.16N	6.73W		.063	•100		6/22/77				62.57N	89.47W		.080	•642	.148
	6/22/77	-			57.65N	7.62W		.061	• 085		6/22/77				62.19N	90.73W		.089	•658	.14B
	6/22/77				58.14N	8.46W		.093	•204	•46	6/22/77				61.80N	91.97W		•074	•561	.138
	6/22/77	-			58.64N	9.34W	-60•	.149	• 343	•43	6/22/77	-	_		61.40N	93.18W		.073	•683	.118
	6/22/77		_		59.50N	11.38W		.157	•249	•63	6/22/77				60.97N	94.31W		.075	•654	.118
	6/22/77				60.24N	13.61W	-59.	.103	•184	•56	6/22/77				60.44N	95.29W		.071	•654	.118
	6/22/77			-	60.94N	15.94W		.070	•097		6/22/77				59.40N	97.11W		.083	•574	.14B
	6/22/77				61.62N	18.44W	-58•	.085	•173	• 49	6/22/77				58.32N	98.84w		.059	•304	.19B
	6/22/77	1415	1:40	370	61.95N	19.75W	<b>-</b> 56•	.079	•153	-52	6/22/77	1853	6:18	390	57.24N	100.47W	-55.	.046	•240	.19B
	6/22/77	1420	1:45	370	62.28N	21.09W	<del>-</del> 51•	-181	• 224	•81	6/22/77	1903	6:28	410	56.42N	102.34W	-57.	.032	•218	•15B
	6/22/77	1433	1:58	370	63.07N	24.70W	-44.	.229	•672	•34	6/22/77		6:38	410	55.73N	104.28W	-58.	.061	•226	.27B
	6/22/77	1443	2:08	370	63.63N	27.66W		.298	•591	•50	6/22/77				55.37N	105.24W	-58.	.074	•555	.338
	6/22/77		2:18	370	64.18N	30.68W	-40.	.233	• 458	•51	6/22/77		1		55.00N	106.16W		.066	•176	•38B
	6/22/77	1503	2:28	370	64.86N	33.68W	-39.	.047	• 363	•13B	6/22/77	1933	6:58	410	54.27N	107.90W	-56.	.083	•236	.35
	6/22/77		2:33	370	65.17N	35.22W	-38.	.028	• 377	•07B	6/22/77	1943			53.38N	109.37W	-54.	.109	•268	.41
	6/22/77	1513	2:38	370	65.46N	36.78W	-39.	.060	•573	-10B	6/22/17				52.99N	110.18W	-52.	•10 <del>9</del>	•329	.33
	6/22/77	1518	2:43	370	65.74N	38.37W	-40.	.060	•389	•15B	6/22/77	1958			52.22N	111.72W		.184	• 497	.37
_	6/22/77	1523	2:48	370	66.00N	39.98W	-40.	.083	•625	•13B	6/22/77	2013	7:38	410	50.96N	114.01W		.229	•636	.36
Ą	6/22/77	1533	2:58	370	66.42N	43.34W	-41.	.056	•626	•09B	6/22/17				50.50N	114.69W		.270	•633	.43
ස	6/22/77				66.89N	48.43W	-43.	.082	•634		6/22/77				50.04N	115.35W		.221	•576	.36
	6/22/77				66.96N	53.61W	-44.	.137	•613	•22B	6/22/77				49.01N	116.45W		•235	∙578	.41
	6/22/77				66.92N	55.35W	-45.	.093	•592		6/22/77				47.86N	117.33W		.260	•607	.43
	6/22/77	1613	3:38	390	66.87N	57.06W	-45•	.091	•670	•14B	6/22/77				46.69N	118.20W		.240	•597	.40
	6/22/77	1618	3:43	390	66.80N	58.77W	-46.	.058	•649	•09B	6/22/77	2103	8:58	410	45.56N	113.00M		.210	•516	.41
	6/22/77	1628	3:53	390	66.64N	62.21W	-46.	.063	•652	•10B	6/22/77	2108			45.00N	114.38W		.206	•435	.47
	6/22/77	1638	4:03	390	66.46N	65.57W	-46.	.064	•670	•10B	6/22/77	2113			44.41N	119.71W	-65.	.134	•249	•54
	6/22/77	1648	4:13	390	66.22N	68.83W	-47.	.040	•665	•06B	6/22/77	2118	8:43	410	43.82N	119.93W	-66.	.096	•176	•55
	6/22/17	1658	4:23	390	65.91N	72.06W	-50•	•079	•653	•128	6/22/17	2123	8:48	410	43.20N	120.15W	-66.	.075	•175	.43
	6/22/77	1703	4:28	390	65.73N	73.63W	-50.	.088	•647	•14B	6/22/77	2133	ช ริริธ	410	42.00N	120.78W	-67.	.068	•176	.39
	6/22/77		4:33	390	65.53N	75.19W	-50.	.104	•624	•17B	6/22/77	2138			41.42N	121.18W	-64.	.064	.249	.26
	6/22/77	1713	4:38	391	65.32N	76.73W	-50•	.119	•596	•20B	6/22/77	2148	9:13	410	40.31N	121.98W	-65.	.083	•147	.50
											6/22/77	215B	9:23	410	39.08N	122.55W	-62.	.073	•180	.41
													-							



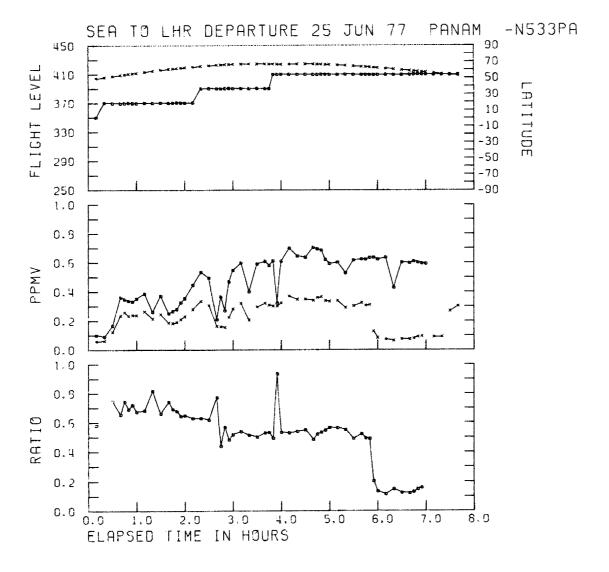
MAXIMUM VALUES: AMBIENT OZUNE=\*\*\*\*\* CABIN OZONE= .360 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 69 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	
6/24/77	0153	0:10	343	39.88N	121.80W	-47.	.035	6/24/77	0623			64.04N	76.07W	-55.	.182	
6/24/77		0:50	350	41.11N	121.20W	-50.	.032	6/24/77	0628	4:45	371	63.99N	74.44W	-55.	.196	
6/24/77	0223	0:40	370	43.55N	120.12W	<b>-55•</b>	• 050	6/24/77	0633	4:50	371	63.92N	72.81W	-55.	.240	
6/24/77	0228	0:45	370	44.19N	119.88W	-55.	.061	6/24/77	0638	4:55	371	63.83N	71.15W	-52.	.278	
6/24/77	0233	0:50	370	44.81N	119.60W	-55.	.061	6/24/77	0643	5:00	371	63.78N	69.50W	-50.	.321	
6/24/77	0238	0:55	371	45.42N	119.18W	-55.	.064	6/24/77	0653	5:10	371	63.89N	66.21W	-45.	.308	
6/24/77	0243	1:00	371	45.99N	118.78W	-55.	.056	6/24/77	0703	5:20	399	63.93N	62.91W	-45.	•336	
6/24/77	0253	1:10	370	47.17N	117.92W	-55.	.059	6/24/77	0713	5:30	411	63.87N	59.59W	-44.	.360	
6/24/77	0303	1:20	371	48.33N	117.05W	-56.	.041	6/24/77	0723	5:40	410	63.61N	56.34W	<b>~45</b> .	.328	
6/24/77	0313	1:30	370	49.49N	116.14W	-56.	.070	6/24/17	0728	5:45	411	63.45N	54.72W	-44.	.330	
6/24/77	0323	1:40	370	50.52N	114.74W	-57.	.050	6/24/77	0733	5:50	410	63.28N	53.16W	-44.	.309	
6/24/77	0328	1:45	370	51.03N	114.01W	-57.	.052	6/24/77	0738	5:55	411	63.09N	51.62W	-44.	.317	
6/24/77	0333	1:50	370	51.53N	113.24W	-57.	.055	6/24/77	0743	6:00	411	62.89N	50.11W	-45.	•332	
6/24/77	0338	1:55	370	52.02N	112.45W	-57.	.090	6/24/77	0753	6:10	410	62.66N	46.99W	-45.	.299	
6/24/77	0343	5:00	370	52.49N	111.66W	-57.	.153	6/24/77	0803	6:20	410	62.36N	43.93W	-44.	•325	
6/24/77	0353	2:10	370	53.39N	109.96W	-57.	.155	6/24/77	0813	6:30	411	62.00N	40.91W	-44.	.345	
6/24/77	0403	2:20	370	54.23N	108.08W	-55.	.249	6/24/77	0823	6:40	411	61.55N	38.02W	-44.	.288	
6/24/77	0413	5:30	370	55.05N	106.12W	-51.	.347	6/24/77	0828	6:45	410	61.29N	36.59W	-44.	.297	
6/24/77	0423	2:40	370	55.85N	104.03W	-49.	. 256	6/24/77		6:50	410	61.03N	35.20W	-44.	.306	
6/24/77	0428	2:45	370	56.24N	102.94W	-52.	.257	6/24/77	0838	6:55	410	60.74N	33.80W	-45.	.311	
6/24/77	0433	2:50	371	56.62N	101.82W	-51.	.216	6/24/77	0843			60.45N	32.49W	-46.	.318	
6/24/77	0438	2:55	370	57.03N	100.82W	-52•	.236	6/24/77	0853	7:10	410	59.84N	29.78W	-46.	.316	
6/24/77	0443	3:00	370	57.57N	99.93W	-54.	.270	6/24/77	0903	7:20	411	59.39N	27.07W	-44.	•319	
6/24/77	0453	3:10	371	58.71N	98.20W	-55.	.255	6/24/77	0913	7:30	411	58.89N	24.43W	-45.	.326	
6/24/77		3:20	371	59.77N	96.40W	-59.	.115	6/24/77	0923	7:40	411	58.32N	21.84W	-44.	.326	
6/24/77	0513	3:30	371	60.77N	94.55W	-59.	.109	6/24/77	0933	7:50	411	57.78N	19.24W	-44.	.330	
6/24/77	0523	3:40	371	61.61N	92.36W	-58.	.089	6/24/77		7:55	410	57.56N	17.91w	-44.	.293	
6/24/77	0528	3:45	371	61.98N	91.19W	<b>-59</b> •	.073	6/24/77	0943			57.33N	16.60W	-45.	.238	
6/24/77	0533	3:50	371	62.34N	90.01W	-59.	.123	6/24/77	0948	8:05	411	57.09N	15.33W	-46.	•215	
6/24/77	0538	3:55	371	62.70N	88.82W	-60.	.122	6/24/77	0958	8:15	411	56.58N	12.88W	-46.	.225	
6/24/77	0543	4:00	371	63.03N	87.63W	-60.	.076	6/24/77	1008	8:25	411	56.02N	10.49W	-46.	•177	
6/24/77	0553	4:10	371	63.68N	85.18W	-61.	.071	6/24/77	1018	8:35	411	55.32N	8.29W	-47.	.157	
6/24/77	0603	4:20	371	64.13N	82.46W	-59.	.136	6/24/77	1033	8:50	411	54.25N	5.12W	-48.	.166	
6/24/77	0613	4:30	371	64.09N	79.29W	-57.	.179	6/24/77	1038	8:55	411	53.85N	4.11w	-49.	.204	
								6/24/77	104R	9:05	292	52.98N	2.43	-43.	.079	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .372 RATIO (LIMITE) TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL010, FILE 4

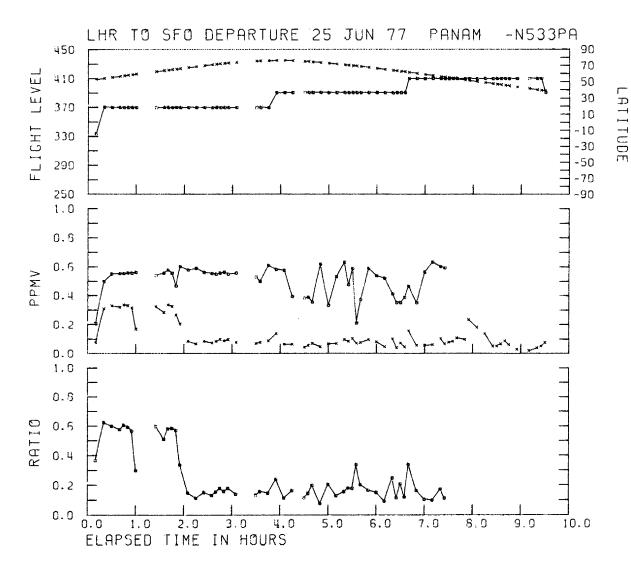
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPM CABIN AM	0	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (PPM CABIN AM	<b>01</b> T.	
	6/24/77				53.83N			.154		6/24/77	-			72.11N	74.00W		.064	В	
	6/24/77	1401			55.09N	3.21W	-53•	.282		6/24/77				71.18N	77.49₩		.068	В	
	6/24/77	1411			56.33N	4.33W	-51•	.311		6/24/77	1811			70.64N	79.29W	-41.	•111	В	
	6/24/77	1421	0:42	370	57.56N	5.52W	-49.	.328		6/24/77	1822			69.62N	82.32W	-43.		В	
	6/24/77	1426	0:47	370	58.17N	6.14W	-49.	.357		6/24/77	1832	4:53	391	68.58N	85.00W	-48.	.100	В	
	6/24/77	1431	0:52	370	58.76N	6.88W	-49.	• 366		6/24/77	1841	5:02	391	67.67N	87.69W	-50.	.103	В	
	6/24/77	1436	0:57	370	59.34N	7.63W	-48.	.340		6/24/77	1851	5:12	391	66.77N	90.31W	-52.	.133	В	
	6/24/77	1441	1:02	370	59.93N	8.44W	-47.	.327		6/24/77	1856	5:17	391	66.32N	91.51W	-53.	.125	8	
	6/24/77	1451	1:12	370	61.07N	10.09W	-46.	.372		6/24/77	1901	5:22	390	65.84N	92.70W	-53.	•059	В	
	6/24/77	1501	1:22	370	62.23N	11.76W	-44.	.367		6/24/77	1906	5:21	391	65.37N	94.82W	-54.	.075	В	
	6/24/77	1511	1:32	370	63.37N	13.56W	-43.	.270	В	6/24/77	1921	5:42	402	63.98N	97.16W	-51.	.141		
	6/24/77	1521	1:42	370	64.51N	15.55W	-41.	.080	В	6/24/77	1931	5:52	411	63.17N	99.52W	-49.	.103	В	
	6/24/77	1526	1:47	370	65.06N	16.60W	-39.	.098	B	6/24/77	1941	6:02	410	62.35N	101.88W	-49.	.130	В	
	6/24/77	1531	1:52	370	65.61N	17.69W	-40.	.094	В	6/24/77	1951	6:12	410	61.51N	104.08W	-48.	.101	В	
	6/24/77	1536	1:57	370	66.11N	18.93W	-39.	.107	В	6/24/77	1956	6:17	410	61.08N	105.13W	-48.	.110	В	
	6/24/77	1541	2:02	370	60.59N	20.24W	-41.	.105	B	6/24/77	2001	6:22	410	60.65N	106.14W	-50.	.105	В	
	6/24/77	1551	2:12	370	67.55N	23.00W	-39.	.133	8	6/24/77	2006	6:27	411	60.22N	107.11W	-49.	.061	8	
	6/24/77	1001	2:22	370	68.45N	25.96W	-40.	.103	В	6/24/77	2011	6:32	410	59.79N	108.03W	-52.	.110	В	
	6/24/77	1611	2:32	370	69.30N	29.18W	-40.	.099	В	6/24/77	2031	6:52	410	57.78N	111.10W	-52.	.104	8	
	6/24/77	1621	2:42	370	70.06N	32.69W	-40.	.098	В	6/24/77	2041	7:02	410	56.79N	112.39W	-57.	.082	В	
	6/24/77	1626	2:47	370	70.41N	34.55W	-40.	.136	В	6/24/77	2051	1:12	410	55.80N	113.62W	-60.	.062	8	
_	6/24/77	1631	2:52	370	70.74N	36.46W	-40.	.112	В	6/24/77	2056	7117	410	55.31N	114.19W	-58.	.067	В	
δ	6/24/77	1636	2:57	370	71.U4N	38.41W	-40.	.099	В	6/24/77	2101	7:22	410	54.84N	114.73W	-58.	.070	8	
67	6/24/77	1641	3:02	370	71.33N	40.42W	-40.	.089	В	6/24/77	2111	1:32	410	53.85N	115.82W	-58.	.093		
	6/24/77	1651	3:12	370	71.86N	44.58W	-39•	.093	В	6/24/77	2116	7:37	4Í0	53.37N	116.33W	-58.	.125		
	6/24/77	1711	3:32	370	72.65N	53.52W	-39•	.112	В	6/24/77	2126	7:47	410	52.40N	117.31W	-58.	.136		
	6/24/77	1721	3:42	370	72.88N	58.18W	-37•	.082	В	6/24/77	2136	7:57	411	51.44N	118.24W	<b>-</b> 58.	.075		
	6/24/77	1736	3:57	390	73.03N	65.43W	-38.	.082	В	6/24/77	2146	8:07	410	50.50N	119.13W	-59.	.025		
	6/24/77	1741	4:02	390	73.03N	67.85W	-37.	.067	В	6/24/77	2156	8:17	411	49.61N	120.12W	-59.	.036		
	6/24/77	1746	4:07	390	72.97N	70.25W	-38•	.070	В	6/24/77	1025	8:22	411	49.16N	120.60W	-60.	.026		



MAXIMUM VALUES: AMBIENT OZONE= .704 CABIN OZONE= .370 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .94 TOTAL OBS IN CABIN: 59
DATA SOURCE: GASP TAPE VL010, FILE 4

(	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CABIN OZONE (		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE( CABIN	,	Oltar
	6/25/77	0130	0:10	350	49.19N	120.53W	-51•	.058	•100		6/25/77				66.81N	63.59W		.303	• 324	.94
	6/25/77	0140			50.53N	119.11w	-55•	.063	•090		6/25/77	7			66.70N	01.85M		.324	•609	.53
	6/25/77	0150	0:30	370	51.89N	117.80W	-54•	.124	•166		6/25/77				66.83N	58.33W		.370	•699	•53
	6/25/77	0200	0:40	370	53.23N	116.47W	-53•	.236	•361	•65	6/25/77	_			66.96N	54.70W		.348	•646	.54
	6/25/77		0:45	370	53.90N	115.76W		.259	• 349	•74	6/25/77	-			67.00N	2j.06M		.349	•636	•55
	6/25/77				54.59N	115.02W		.233	•338	•69	6/25/77				66.81N	47.47W		.341	•704	.48
	6/25/77				55.27N	114.23W		.240	• 333		6/25/77				66.66N	45.72W		.360	•694	.54
	6/25/77				55.96N	113.43W		.238	•353	•67	6/25/77				66.49N	44.01W		•365	•686	د5.
	6/25/77				57.28N	111.76W		.264	•387	•68	6/25/77				66.30N	42.33W		•339	•621	-55
	6/25/77				58.54N	110.03W		.214	•262	•82	6/25/77				66.09N	40.66W		• 335	•593	.56
	6/25/77				59.72N	108.16W		.245	•371	•66	6/25/77				65.57N	37.43W		•339	•605	.50
	6/25/77		_		60.73N	105.96W		.186	•251	• 74	6/25/77				64.99N	34.37W		.291	•529	.55
	6/25/77	-	-		61.21N	104.82W		.184	•266	•69	6/25/77				64.34N	31.41W		.303	•617	49
	6/25/77				61.68W	103.65W		190	•280	•68	6/25/77				63.64N	28.56W		.325	•624	•52
	6/25/77				62.14N	102.44W		.210	•326	•64	6/25/77			_	63.28N	27.17W		.307	•622	.49
	6/25/77				62.58N	101.21W	-	.230	• 355	•65	6/25/77				62.90N	25.80W		.310	•633	.49
	6/25/77				63.43N	98.73W		.280	• 446	•63	6/25/77				62.50N	24.45W		.129	•635	.20B
	6/25/77				64.24N	96.10W	4, 5	.336	•534	•63	6/25/77				62.09N	23.15W		.084	•623	.138
	6/25/77			-	65.00N	93.33W		.306	•495	_	6/25/77				61.24N	20.66W		.073	•636	.11B
	6/25/77			-	65.71N	90.40W		.162	•210	•77	6/25/77				60.36N	18.28₩		.064	•429	.15B
	6/25/77				66.04N	88.83W		.160	•364		6/25/77	_			59.43N	16.00W		.075	•602	.128
>	6/25/77	-		-	66.35N	87.23W		.154	•271	•57	6/25/77				58.54N	13.77W		•073	•598	.12B
ċ	6/25/77				66.58N	85.57W	-	.226	•468	•48	6/25/77				58.12N	12.66W		.080	•610	.138
Ö	6/25/77				66.72N	83.79W		.283	•547	•52	6/25/77				57.67N 57.24N	11.57W		•090	•602	.15B
	6/25/77				66.94N	80.18W		.322	•598	•54	6/25/77				56.76N	10.55W 9.56W		.095	•595	.168
	6/25/77			-	67.06N	76.53W		.206	•401	•51	6/25/77				-			000	•593	D
	6/25/77	-			67.10N	72.81W		.296	•591	•50	6/25/77				55.70N	7.77W		•090		B
	6/25/77	-			67.05N	69.08W		.322	•609	•53	6/25/77	-			54.62N	6.06W		.091		В
	6/25/77				66.99N	67.24W		.309	•581	•53	6/25/77				53.74N	4.09W		.270		
	6/25/77	0.2.1 ()	3:50	410	66.91N	65.40W	-40•	.302	•612	•49	6/25/77	0900	7:40	410	52.77N	2.35W	-41.	.302		

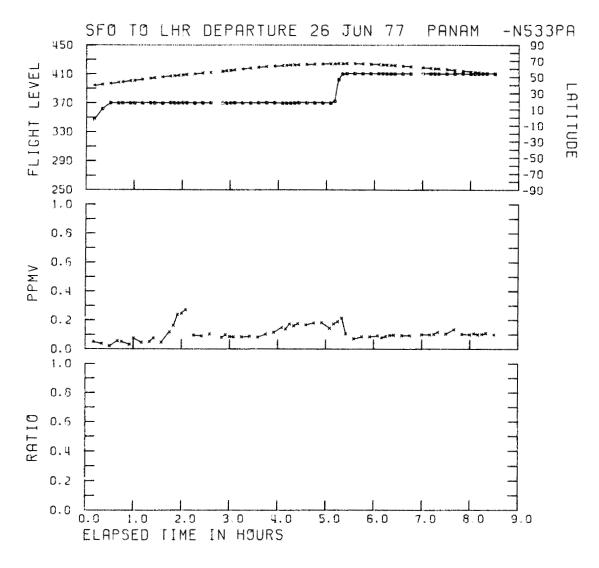
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MAXIMUM VALUES: AMBIENT OZONE= .633 CABIN OZONE= .337 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .62 TOTAL OBS IN CABIN: 70 DATA SOURCE: GASP TAPE VL010, FILE 4

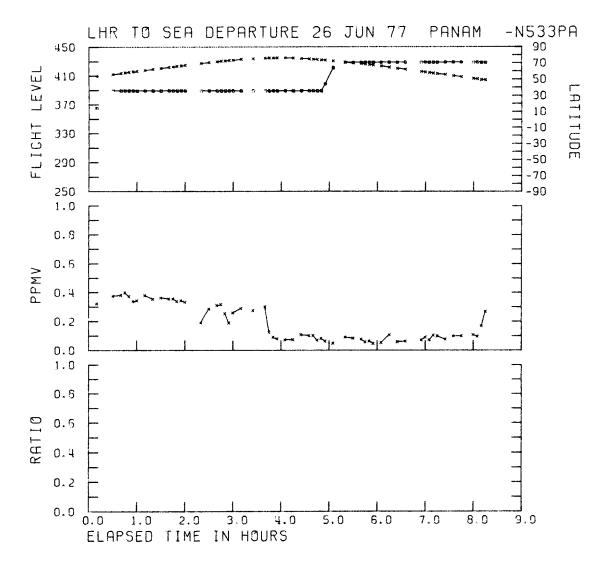
					'														
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
6/25/77	1325	0:10	334	53.17N	1.82W	-54.	.076	•207	•37	6/25/77	1835	5:20	391	70.95N	100.25w	-44.	.098	•631	.168
6/25/77	1335	0:20	370	54.38N	2.62W			•497		6/25/77	1840	5:25	391	70.45N	101.69W	-44.	.085	•477	188
6/25/77	1345	0:30	370	55.66N	3.32W			•552	•60	6/25/77	1845	5:30	391	69.94N	103.06W	-44.	.104	•589	.188
6/25/77				57.04N	3.22W			•555		6/25/77	1850	5:35	391	69.41N	104.38W	-44.	.071	•211	.34B
6/25/77	1400	0:45	370	57.74N	3.16W	-47.	.337	•555	•61	6/25/77	1855	5:40	391	68.86N	105.55W	-44.	.075	•371	20B
6/25/77				58.43N	3.10W	-46.	.332	•559		6/25/77	1905	5:50	391	67.70N	107.50W	-44.	.097	•590	.16B
6/25/77	1410	0:55	370	59.05N	3.62W	-46.	.317	•558		6/25/77	1915	6:00	391	66.51N	109.28W	-42.	.081	•539	.15B
6/25/77	1415	1:00	370	59.67N	4.19W			•563		6/25/77	1925	6:10	391	65.31N	110.94W	-43.	.048	•522	.09B
6/25/77	1440	1:25	370	62.81N	7.36W	-45.	.324	•542	•60	6/25/77	1935	6:20	391	64.09N	112.50W	-43.	.102	•413	.25B
6/25/77	1450	1:35	370	64.05N	8.80W			•557		6/25/77	1940	6:25	391	63.48N	113.23W	-43.	.040	•352	-
6/25/77	1455	1:40	370	64.67N	9.58W	-42.	.337	•579	•58	6/25/77	1945	6:30	391	62.85N	113.94W	-42.	.073	• 352	.218
6/25/77	1500	1:45	370	65.30N	10.39W	-42.	.326	•557	•59	6/25/77	1950	6:35	391	62.21N	114.55W	-42.	.046	•388	.128
6/25/77	1505	1:50	370	65.92N	11.25W			•469		6/25/77	1955	6:40	410	61.54N	115.05W	-42.	.157	•466	.348
6/25/77	1510	1:55	370	66.54N	12.14W		.203	•603	•34B	6/25/77	2005	6:50	410	60.23N	115.96w	-43.	.057	•351	.16B
6/25/77	1520	2:05	370	67.77N	14.09W	-41.	.086	•579	·158	6/25/77	2015	7:00	410	58.89N	116.81W	-43.	.058	•564	.108
6/25/77	1530	2:15	370	69.00N	16.28W	-42.	.067	•591	-118	6/25/77	2025	7:10	410	57.58N	117.61w	-44.	.062	•633	.108
6/25/77	1540	2:25	370	70.17N	18.70W	-44.	.085	•562	•15B	6/25/77	2035	7:20	410	56.27N	118.36W	-43.	.103	•603	.178
6/25/77	1550	2:35	370	71.32N	21.42W		.073	•555	•13B	6/25/77	2040	7:25	410	55.61N	118.72W	-45.	.066	•593	.11B
6/25/77	1555	2:40	370	71.88N	22.92W		.085	•551		6/25/77	2045	7:30	410	54.96N	119.01W	-47.	.078		8
6/25/77	1600	2:45	370	72.41N	24.60W	-45.	.099	+558	•188	6/25/77	2050	7:35	410	54.28N	119.19W	-46.	.085		8
6/25/77	1605	2:50	370	72.88N	26.52W	-45.	.089	•564	•16B	6/25/77	2055	7:40	410	53.60N	119.36W	-50.	.108		В
6/25/77	1610	2:55	370	73.32N	28.53W	-45.	.098	•551	-18B	6/25/77	2105	7:50	410	52.23N	119.68W	-52.	.097		В
6/25/77	1620	3:05	370	74.15N	32.86W		.078	•558	•14B	6/25/77	2110	7:55	410	51.56N	119.83W	-56.	.234		
6/25/77	1645	3:30	370	75.75N	45.59W	-41.	.071	•530	-138	6/25/77	2120	8:05	410	50.21N	120.13W	-62.	.181		
6/25/77	1650	3:35	370	75.98N	48.44W		.078	•500		6/25/77	2130	B:15	410	48.98N	120.69W	-63.	.137		
6/25/77	1700	3:45	370	76.33N	54.40W	-39.	.089	•610	•15B	6/25/77	2140	B:25	410	47.72N	121.20W	-64.	.051		
6/25/77	1710	3:55	391	76.52N	60.62W	-38.	.138	•582	•24B	6/25/77	2145	8:30	410	47.04N	121.33W	-64.	.053		
6/25/77	1720	4:05	391	76.55N	66.93W	-38.	.065	•576	•11B	6/25/77	2150	8:35	410	46.36N	121.46W	-64.	.066		
6/25/77	1730			76.18N	72.83W		.064	• 394	•16B	6/25/77	2155	8:40	410	45.67N	121.59W	-64.	.088		
6/25/77	1745	4:30	391	75.29N	80.80W	-39.	.044	• 384	•11B	6/25/77	2200	8:45	410	44.99N	121.71W	-64.	.061		
6/25/77				74.95N	83.24W		.056	•389		6/25/77		8:55	410	43.63N	121.95W	-64.	.030		
6/25/77				74.57N	85.57W	-	.070	• 355		6/25/77	2225	9:10	410	41.57N	122.28W	-64.	.021		
6/25/77	-			73.76N	89.86W	-	.047	•619		6/25/77		9:20	410	40.18N	122.50W	-64.	.040		
6/25/77				72.87N	93.76W		.068	• 334		6/25/77		9125	410	39.48N	122.60W		.052		
6/25/77	_			71.94N	97.17W		068			6/25/77				38.79N	122.70W		.076		
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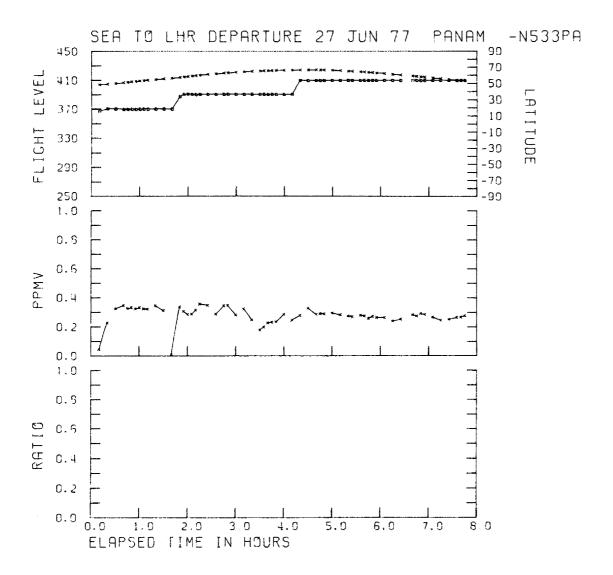
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .271 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 64
DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	ĢMT	ETIM HR:MN	FL	LAT	LONG		OZONE (	RATIO	MOZDAZYR	GMT	ETIM HK:MN	FL	LAT	LONG	TEMP	CABIN OZONE (	 RATIO	
							,												
	6/26/77	0152	0:10	347	39.93N	121.58W	-48.	.051		6/26/77	0611	4:29	371	65.62N	74.51W	-50.	.176	В	
	6/26/77	0202	0:20	362	41.20N	120.99W	-51.	.038		6/26/77	0621	4:39	370	66.01N	71.07W	-49.	.167	8	
	6/26/77	0212	0:30	370	42.44N	120.39W	-54.	.022		6/26/77	0631	4:49	370	66.32N	67.54W	-47.	.180	8	
	6/26/77	0222	0:40	370	43.66N	119.78W	-54.	.057		6/26/77	0641	4:59	370	66.55N	63.90W	-45.	.182	В	
	6/26/77	0227	():45	370	44.28N	119.46W	-54.	.052		6/26/77	0651	5:09	370	66.74N	60.21w	-44.	.144	8	
	6/26/77	0237	0:55	370	45.54N	118.78W	-54.	.033		6/26/77	0656	5:14	373	66.83N	56.34W	-42.	.174	8	
	6/26/77	0242	1:00	370	46.19N	118.42W	-55.	.076		6/26/77	0701	5:19	402	66.91N	56.47W	-42.	.189	8	
	6/26/77	0252	1:10	370	47.43N	117.70W	-55.	.046		6/26/77	0706	5:24	410	66.96N	54.57W	-42.	.214	В	
	6/26/77	0302	1:20	370	48.68N	116.78W	-55.	.052		6/26/77	0711	5:29	411	66.99N	52.73W	-43.	.104	8	
	6/26/77	0307	1:25	370	49.29N	116.30W	-56.	.076		6/26/77	0721	5:39	411	66.94N	49.07W	-41.	.071	В	
	6/26/77	0317	1:35	370	50.35N	114.85W	-56.	.047		6/26/17	0731	5:49	410	66.64N	45.49H	-42.	.084	8	
	6/26/77	0327	1:45	370	51.35N	113.17W	-57.	.118		6/26/77	0741	5:59	411	66.26N	42.04W	<b>~43.</b>	.085	ь	
	6/26/77	0332	1:50	370	51.86N	112.27W	-59.	.163		6/26/77	0751	6:09	411	65.79N	38.72W	-43.	.092	В	
	6/26/77	0337	1:55	370	52.36N	111.35W	-56.	.238		6/26/77	0756	6:14	410	65.52N	37.10W	-43.	.079	8	
	6/26/77	0342	2:00	370	52.83N	110.45W	-54.	.247		6/26/77	0801	6:19	410	65.22N	35.51W	-43.	.088	В	
	6/26/77	0347	2:05	370	53.32N	109.50W	-50.	.271		6/26/77	0806	6:24	410	64.91N	33.95w	-43.	.096	В	
	6/26/77	0357	2:15	370	54.26N	107.51W	-46.	.096	8	6/26/77	0811	6:29	410	64.58N	32.44W	-44.	.095	В	
	6/26/77	0407	2:25	370	55.17N	105.46W	-42.	.090	В	6/26/77	0821	6:39	410	63.88N	29.52W	-45.	.094	В	
	6/26/77	0417	2;35	370	56.03N	103.33W	-43.	.104	В	6/26/77	0831	6:49	410	63.15N	26.71W	-45.	.093	В	
	6/26/77	0432	2:50	370	57.46N	100.21W	-44.	.081	В	6/26/77	0846	7:04	411	61.98N	22.82W	-45.	.101	В	
	6/26/77	0437	2:55	370	58.04N	99.35W	-43.	.098	В	6/26/77	0856	7:14	411	61.15N	20.40₩	-45.	.099	В	
	6/26/77	0442	3:00	370	58.63N	98.43W	-44.	.086	В	6/26/77	0901	7:19	410	60.73N	19.18W	-45.	.103	В	
<u> </u>	6/26/77	0447	3:05	370	59.16N	97.57W	-46.	.084	В	6/26/77	0906	7:24	410	60.32N	17.97W	-46.	.117	В	
3	6/26/77	0457	3:15	370	60.25N	95.67W	-49.	.084	В	6/26/77	0916	7:34	410	59.46N	15.62W	-46.	.106	8	
	6/26/77	0507	3:25	370	61.30N	93.53W	-48.	.088	В	6/26/77	0926	7144	410	58.55N	13.38W	-46.	.135	8	
	6/26/77	0521	3:39	370	62.49N	89.74W	-54.	.083	В	6/26/77	0936	7:54	410	57.58N	11.22W	-46.	.103	В	
	6/26/77	0531	3:49	370	63.26N	87.07W	-56.	.103	8	6/26/77	0946	8:04	410	56.57N	9.23W	-47.	.100	В	
	6/26/77	0541	3:59	370	63.99N	84.21W	<b>*55</b> •	.116	В	6/26/77	0951	8:09	410	56.04N	8.32W	-47.	.108	8	
	6/26/77	0551	4:09	370	64.61N	81.13W	-56.	.149	В	6/26/77	0956	8:14	410	55.49N	7.42W	-47.	.100	В	
	6/26/77	0556	4:14	370	64.88N	79.51W	-56.	.138	В	6/26/77	1001	8:19	410	55.00N	6.50W	-48.	.103	8	
	6/26/77	0601	4:19	370	65.15N	77.86W	-55.	.173	8	6/26/77	1006	8:24	410	54.52N	5.57W	-49.	.110	В	
	6/26/77	0606	4:24	370	65.39N	76.19W	-54.	.160	В	6/26/77	1016	8:34	410	53.65N	3.45W	-49.	.100	В	



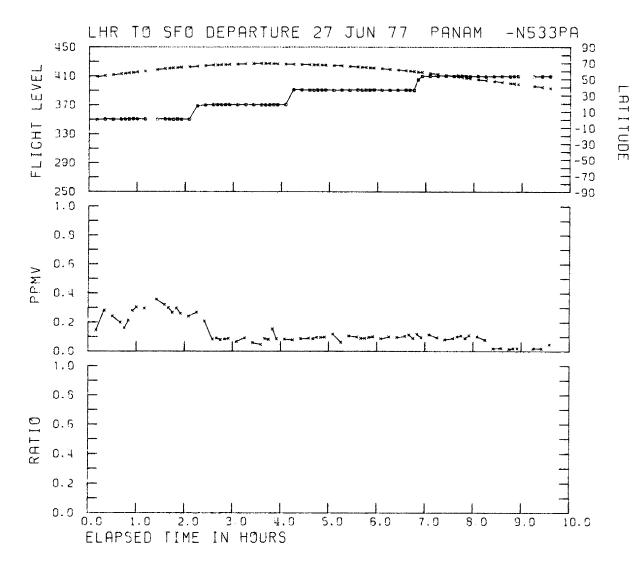
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .399 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 59
DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	Ę٤	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	
6/26/77	1344	0:10	365	53.75N	2.09W	-49.	.322		6/26/77	1749			76.26N	72.16W		.073	В
6/26/77	1404	0:30	390	56.21N	3.29W	-47.	.376		6/26/77	1759			75.73N	77.55W		.107	8
6/26/77	1414	0:40	390	57.56N	3.17W	-46.	.382		6/26/77	1809			75.10N	82.45₩		.101	8
6/26/77	1419	0:45	390	58.26N	3.10W	-46.	.399		6/26/77				74.74N	84.76W		.102	В
6/26/77	1424	0:50	390	58.89N	3.46W	-45.	.373		6/26/77				74.36N	86.97W		.069	8
6/26/77	1429	0:55	390	59.48N	3.99W	-44.	•339		6/26/77				73.96N	89.07W		.081	В
6/26/77	1434	1:00	389	60.08N	4.57W	-44.	.344		6/26/77	1829			73.54N	91.07W		.062	8
6/26/77	1444	1:10	390	61.30N	5.77W	-43.	.380		6/26/77	1839			72.66N	94.73W		.049	8
6/26/77	1454	1:20	389	62.51N	7.02W	-42.	.355		6/26/77				70.73N	101.05W		.091	В
6/26/77	1504	1:30	390	63.73N	8.39W	-41.	.363		6/26/77	1908	- 1		69.70N	103.82W			В
6/26/77	1514	1:40	390	64.96N	9.92W	-40.	.355		6/26/77				69.18N	105.09W		.075	В
6/26/77	1519	1:45	390	65.55N	10.71W	-40.	.357		6/26/77				68.61N	106.13W		.057	8
6/26/77		1:50	390	66.16N	11.56W	-40.	.338		6/26/77				68.03N	107.12W		.063	В
6/26/77	1529	1:55	390	66.75N	12.43W	-40.	.344		6/26/77				67.44N	108.05W		.047	В
6/26/77	1534	5:00	390	67.34N	13.34W	-41.	.333		6/26/77				66.25N	109.78W			В
6/26/77	1554	2:20	390	69.73N	17.70W	-42.	.191		6/26/77	1952			64.58N	114.04W			8
6/26/77	1604	2:30	390	70.87N	20.26W	-42.	.286		6/26/77	2002			63.34N	113.52W		•059	В
6/26/77	1614	2:40	390	71.95N	23.06W	-43.	.310		6/26/77				62.08N	114.76W		.062	В
6/26/77	1619	2:45	390	72.46N	24.71W	-42.	.316		6/26/77		6:58	429	59.42N	116.60W			в
6/26/77	1624	2:50	389	72.91N	26.57W	-42.	. 254		6/26/77	2037			58.78N	117.00W			В
6/26/77	1629	2:55	390	73.34N	28.53W	-42.	.190		6/26/77	2042	7:08	429	58.12N	117.41W	-47.	.071	В
6/26/77	1634			73.77N	30.66W	-43.	.259		6/26/77	2047	1:13	429	57.47N	117.80W	-47.	.104	В
6/26/77	1648	3:14	390	74.88N	37.50W	-43.	.289		6/26/77	2052	7:18	428	56.81N	118.19W	-47.	• 099	В
6/26/77	1659	3:25	390	75.50N	42.69W	-42.	.275		6/26/77	5105	7:28	429	55.53N	118.89W	-46.	.075	8
6/26/77				76.18N	51.02W	-41.	.300		6/26/77	2112	7:38	429	54.21N	119.32W			В
6/26/77		-		76.34N	54.02W			8	6/26/77	5155	7:48	429	52.85N	119.65W	-48.	.099	В
6/26/77		-		76.45N	57.06W		*	8	6/26/77	2137	8:03	429	50.84N	120.10W	-50.	.107	В
6/26/77				76.54N	60.19W			В	6/26/77	2142	8:08	429	50.18N	120.24W		•096	В
6/26/77			_	76.58N	66.31W			В	6/26/77	2147	8:13	428	49.51N	120.38W	-48.	.169	
27 6 2 1 1	•								6/26/77	2152	8:18	428	48.98N	120.84W	-55.	.268	



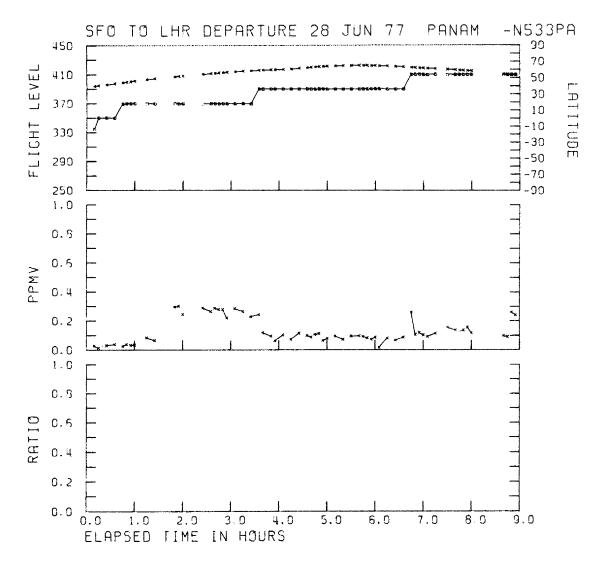
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .357 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL010, FILE 4

					-											
MO/DA/Y	R GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) RA CABIN AMB.	ATIO MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV CABIN AMB	
	7 0135	0:10	367	48.38N	119.49W	-55•	.045	6/27/77	0517	3:52	390	66.21N	68.31W	-55.	•235	
6/27/7	7 0145	0:20	370	49.31N	117.71W	-53•	.228	6/27/77	0527	4:02	390	66.45N	64.84W	-54.	.285	
6/27/7	77 0155	0:30	370	50.23N	115.82W	-49.	.326	6/27/77	0537	4:12	391	66.61N	61.34W	-50.	.247	
6/27/7	7 0205	0:40	370	51.12N	113.85W	-49.	.347	6/27/77	0547	4:22	410	66.80N	57.77W	-46.	.278	
6/27/7	7 0210	0:45	370	51.66N	113.02W	-52•	.327	6/27/77	0557	4:32	410	66.91N	54.17W	-44.	.329	
6/27/7	7 0215	0:50	370	52.20N	112.15W	-50.	.334	6/27/77	0607	4:42	410	66.93N	50.56W	-43.	.285	
6/27/7	7 0220	0:55	370	52.72N	111.28W	-49.	.326	6/27/77	0612	4:47	410	66.84N	48.71W			
6/27/7	7 0225	1:00	370	53.21N	110.35W	-49.	•333	6/27/77	0617	4:52	410	66.69N	46.96W			
6/27/7	77 0230	1:05	370	53.66N	109.37W	-50.	•325	6/27/77	0627	5:02	410	66.34N	43.44W			
6/27/7	7 0235	1:10	370	54.12N	108.34W	-50•	.323	6/27/77	0637	5:12	410	65.91N	40.03W			
6/27/7	7 0245	1:20	370	54.97N	106.32W	-49.	•346	6/27/77	0647	5:22	410	65.36N	36.83W		T 22	
6/27/7	7 0255	1:30	370	55.78N	104.21W	-48.	•313	6/27/77	0652			65.07N	35.28W	-		
6/27/7	7 0305	1:40	370	56.56N	101.99W	-47.	.009	6/27/77	0702			64.43N	32.28W			
6/27/7	7 0315	1:50	387	57.38N	100.31W	-43.	.337	6/27/77	0707			64.08N	30.84W			
6/27/7	7 0320	1:55	390	58.06N	99.29W	-44.	.307	6/27/77	0712			63.74N	29.43W			
6/27/7	7 0325	2:00	391	58.61N	98.44W	-42.	.285	6/27/77	0717			63.38N	28.04W		•	
6/27/7	7 0330	2:05	390	59.15N	97.56W	-43.	.288	6/27/77	0722			63.02N	26.69W			
6/27/7	7 0335	2:10	390	59.70N	96.65W	-43.	.316	6/27/77	0732	6:07	410	62.24N	24.06W			
6/27/7	7 0340	2:15	390	60.23N	95.70W	-43.	•357	6/27/77	0742	6:17	410	61.40N	21.56W			
6/27/7	7 0350	2:25	390	61.25N	93.65W	-43.	.348	6/27/77	0752			60.55N	19.14W			
6/27/7	7 0400	2:35	391	62.04N	91.17W	-45.	.288	6/27/77	0807	6:42	410	59.28N	15.67W			
6/27/7	7 0411	2:46	390	62.87N	88.39W	-44.	.345	6/27/77	0812			58.83N	14.55W			
6/27/7	7 0417	2:52	391	63.27N	86.95W	-46.	•347	6/27/77	0817			58.38N	13.46W			
3 6/27/7	7 0427	3:02	390	63.97N	84.17W	-48.	.282	6/27/77	0822	6:57	410	57.91N	12.41W	-47.		
6/27/7	7 0437	3:12	390	64.57N	81.18W	-51.	.324	6/27/77	0832	7:07	410	56.97N	10.39W			
6/27/7	7 0447	3:22	391	65.07N	78.14W	-55.	.249	6/27/77	0842			55.94N	8.58W			
6/27/7	7 0457	3:32	391	65.51N	75.01W	-59.	.179	6/27/77	0852			54.88N	6.85W			
6/27/7	7 0502	3:37	391	65.72N	73.36W	-58.	.199	6/27/77				53.94N	4.95W			
6/27/7	7 0507	3:42	390	65.90N	71.70w	-57.	.228	6/27/77				53.52N	J.93W			
6/27/7	7 0512	3:47	391	66.06N	70.03W	-56•	.232	6/27/77	0912			53.04N	2.99W			



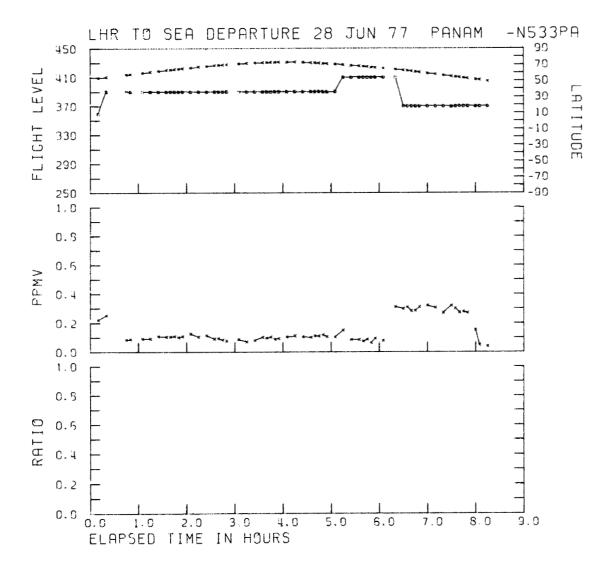
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .358 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 73 DATA SOURCE: GASP TAPE VL010, FILE 4

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	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZUNE (PPMV) CABIN AMB.		MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (APMV) CABIN AMB.		
	6/27/77	1314	0:10	350	53.29N	1.76W	-54.	.146		6/27/17	1749	4:45	391	67.92N	75.54W	-53.	.097	В	
	6/27/77	1324	0:20	350	54.47N	2.60W	-53•	.282		6/27/77	1754	4:50	391	67.75N	77.28W	-53.	.096	8	
	6/27/77		0:30	350	55.65N	3.50W	-55•	.243		6/27/77	1759	4:55	391	67.57N	79.01W	-52.	.099	В	
	6/27/77	1344	0:40	350	56.78N	4.63W	-58.	.199		6/27/77	1809	5:05	390	67.13N	62.39W	-50.	.120	8	
	6/27/77	1349	0:45	351	57.32N	5.20W	-58.	.161		6/27/77	1819	5:15	391	66.63N	85.60W	-46.	.063	В	
	6/27/77	1354	0:50	350	57.86N	5.79W	-55•	.213		6/27/77	1829	5:25	391	66.06N	88.73W	-46.	.107	8	
	6/27/77				58.42N	6.32W	-52•	.280		6/27/77				65.42N	91.65W		•099	В	
	6/27/77	1404	1:00	351	59.01N	6.74W	-49.	.304		6/27/77		5:40	391	65.07N	93.05W	-43.	•091	В	
	6/27/77	1414	1:10	351	60.22N	7.64W	-44.	.297		6/27/77	1849	5:45	391	64.72N	94.40W	-42.	•090	В	
	6/27/77	1429	1:25	351	62.07N	9.16W	-40.	•358		6/27/77	1854	5:50	391	64.35N	95.72W	-43.	.098	В	
	6/27/77	1439	1:35	351	63.21N	10.59W	-40.	.322		6/27/77	1859	5:55	391	63.98N	96.99W	-42.	.101	В	
	6/27/77	1444	1:40	351	63.64N	11.76W	-40.	.300		6/27/77	1909	6:05	391	63.17N	99.49W	-43.	.088	В	
	6/27/77	1449	1:45	350	64.07N	12.94W	-41.	.268		6/27/77	1919			62.35N	101.86W	-44.	.100	В	
	6/27/77	1454	1:50	351	64.49N	14.17W	-42.	-298		6/27/77	1929	6:25	391	61.51N	104.06W	-44.	.098	В	
	6/27/77	1459	1:55	350	64.87N	15.50W	-42.	.261		6/27/77	1939	6:35	391	60.63N	106.17W	-46.	.105	В	
	6/27/77	1509	2:05	350	65.60N	18.29W	-43.	.243		6/27/77	1944	6:40	391	60.18N	107.19W	-40.	.115	В	
	6/27/77	1519	2:15	369	66.29N	21.19W	-42.	.269		6/27/77	1949	6:45	391	59.71N	108.19W	-47.	.090	В	
	6/27/77	1529	2:25	370	66.98N	24.31W	<b>~42</b> •	.209	8	6/27/77	1954	6:50	405	59.15N	108.94W	-45.	•119	в	
	6/27/77	1539	2:35	371	67.60N	27.56W	-42.	.083	В	6/27/77	1959	6:55	410	58.54N	109.56W	-46.	.096	В	
	6/27/77	1544	2:40	371	67.88N	29.22W	-42.	.092	В	6/27/17	2009	7:05	410	57.32N	110.73W	-47.	•116	В	
	6/27/77	1549	2:45	370	68.13N	31.00W	-41.	.081	В	6/27/77	2019	7:15	410	56.08N	111.79W	-47.	• 095	В	
	6/27/77	1554	2:50	371	68.34N	32.77W	-41.	.085	8	6/27/77	2029	7:25	410	54.83N	112.73W	-48.	.082	В	
5	6/27/77	1559	2:55	371	68.55N	34.63W	-40.	.089	В	6/27/77	2039	7:35	410	53.69N	113.96W	-47.	•090	В	
2	6/27/77	1609	3:05	370	68.88N	38.35W	-40.	.068	В	6/27/77	2044	7:40	410	53.04N	114.32W	-44.	.103	8	
	6/27/77	1619	3:15	371	69.27N	42.13W	-39•	.092	В	6/27/77	2049	7:45	410	52.39N	114.67W	-50.	.108	В	
	6/27/77	1629	3:25	370	69.68N	46.00W	-40.	.060	8	6/27/77	2054	7:50	410	51.73N	115.02W	-51.	.090	В	
	6/27/77	1639	3:35	370	69.97N	50.01W	-40.	.047	В	6/27/77	2059	7:55	410	51.06N	115.36W	-51.	.110	B	
	6/27/77	1044	3:40	370	69.83N	52.04W	-42.	.087	В	6/27/77	2109	8:05	410	49.73N	116.01W	-53.	.103	8	
	6/27/77	1649	3:45	370	69.68N	54.02W	-42.	.083	В	6/27/77	2119	8:15	409	48.57N	11.6.87W	-62.	.079	В	
	6/27/77	1654	3:50	371	69.49N	55.93W	-44.	•155	В	6/27/77	2129	8:25	409	47.45N	117.68W	-64.	.020	В	
	6/27/77	1659	3:55	370	69.28N	57.79W	-46.	.086	용	6/27/77	2139	8:35	410	46.32N	118.47W	-64.	.022	В	
	6/27/77	1709	4:05	371	68.91N	61.40W	-51.	.085	8	6/27/77	2149	8:45	409	45.15N	119.24W	-63.	.016	В	
	6/27/77	1719	4:15	391	68.65N	64.90W	-52•	.078	В	6/27/77	2154	8:50	410	44.57N	119.62W	-64.	.021	В	
	6/27/77	1729	4:25	391	68.40N	68.45W	-54.	.087	8	6/27/77	2159	8:55	410	43.98N	119.99W	-64.	.020	В	
	6/27/77	1739	4:35	391	68.20N	72.02W	-54•	.091	8	6/27/77	2219	9:15	409	41.56N	121.42W	-64.	.020	В	
	6/27/77	1744	4:40	391	68.07N	73.78W	-54.	.087	8	6/27/77	2229	9:25	410	40.34N	122.10W	-64.	.019	В	
										6/27/77	2239	9:35	410	39.04N	122.45W	-63.	.049	В	



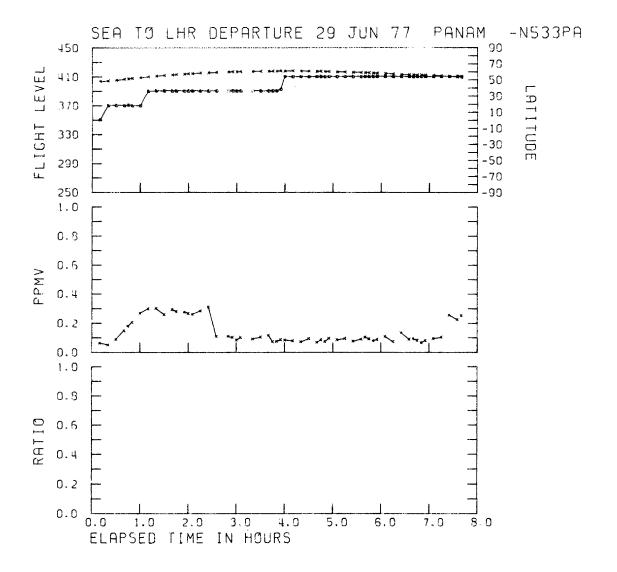
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .303 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 63 DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (EPMV) CABIN AMB.		
	6/28/77	0156	0:10	335	39.89N	122.24W	-44.	.028		6/28/77				63.38N	71.73W		.107	8	
	6/28/77	1020	0:15	350	40.51N	121.94W	-49.	.014		6/28/77				63.75N	70.38W		.113	В	
	6/28/77	0211	0:25	350	41.75N	121.16W	-48.	.032		6/28/77	0641			64.01N	68.92W		•065	В	
	6/28/77	0221	0:35	350	43.02N	120.45W	-48•	.039		6/28/77				64.23N	67.38W		.080	В	
	6/28/77	0231	0:45	370	44.30N	119.71W	-53•	.027		6/28/17	-			64.60N	64.24W		.096	ㅂ	
	6/28/77				44.93N	119.32W				6/28/77				64.91N	61.04W		.073	8	
	6/28/77			_	45.56N	118.94W	-54.	.034		6/28/77				65.06N	57.69W		.096	В	
	6/28/77				46.18N	118.54W	<del>-</del> 53∙	.035		6/28/77				65.08N	54.33W		•097	В	
	6/28/77	0301	1:15	370	48.04N	117.27W	-55.	.085		6/28/77			_	65.06N	52.60W		.093	В	
	6/28/77				49.22N	116.36W	-55•	.066		6/28/77				65.03N	50.89W		.083	В	
	6/28/77		-	-	51.59N	112.68W				6/28/77				64.94N	49.18W		.073	В	
	6/28/77	-			52.05N	111.85W				6/28/77				64.82N	47.51W		.087	В	
	6/28/77				52.51N	111.00W				6/28/77				64.67N	45.84W		.018	В	
	6/28/77	-	_		54.70N	106.51W				6/28/77	_			64.33N	44.56W		.081	В	
	6/28/77				55.53N	104.57W				6/28/77				63.90N	39.36W		•068	В	
	6/28/77		2:40	370	55.93N	103.57W				6/28/77	0821			63.36N	36.26W		.088	В	
	6/28/77		2:45	370	56.32N	102.55W	-50•			6/28/77	0831			62.77N	33.29W		.261	8	
	6/28/77				56.71N	101.49W				6/28/77				62.45N	31.88W		.106	В	
	6/28/77	0441	2:55	370	57.06N	100.37W		.220		6/28/77				62.13N	30.51W		.119	8	
	6/28/77	0451	-		57.72N	98.01W		.285		6/28/77				61.86N	29.09W		.103	В	
	6/28/77				58.32N	95.63W		-266		6/28/77	_	4 .	44.0	61.61N	27.63W		.093	В	
	6/28/77	_		_	58.89N	93.06W		.230		6/28/77	_		-	61.11N	24.92W		.114	В	
Ñ	6/28/77	_			59.38N	90.41W		.244		6/28/77				60.26N	20.93W		•155	В	
∞	6/28/77	-	-		59.59N	89.05W		.119	В	6/28/77				59.69N	18.30W		.136	В	
	6/28/77		_	-	59.98N	86.25W		• 096	В	6/28/77				59.36N	17.04W		.120	В	
	6/28/77				60.15N	84.83W		.064	В	6/28/77				59.02N	15.81W		.136	В	
	6/28/77	-			60.43N	81.99W		.104	В	6/28/77	-			58.66N	14.60W		.157	В	
	6/28/77	0601	4:15	391	60.88N	79.24W	-44.	•073	8	6/28/77				58.30N	13.41W		•117	В	
	6/28/77	0611	4:25	391	61.75N	76.88W	-44.	.115	В	6/28/77				54.55N	5.54W		•099	В	
	6/28/77				62.59N	74.39W		.100	В	6/28/77				54.14N	4.53W		.091		
	6/28/77	0626	4:40	391	62.99N	73.08W	-46.	.088	В	6/28/77				53.72N	3.52W		.261		
										6/28/77	1041	8:55	410	53.28N	2.57W	-47.	.242		



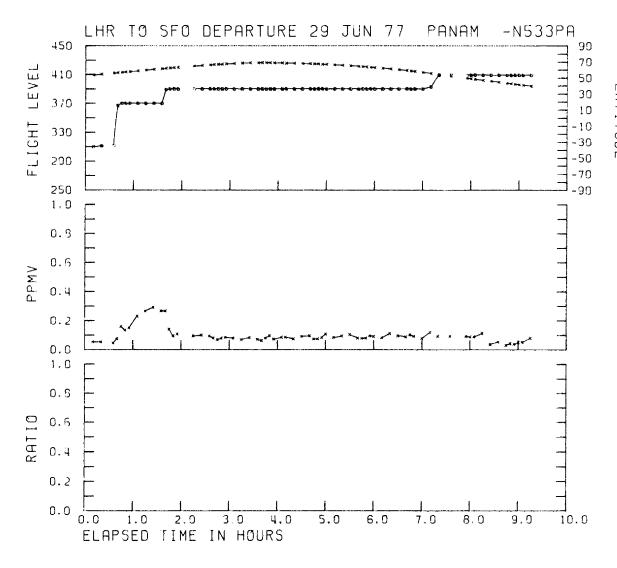
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\* CABIN OZONE= .321 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 61 DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.		MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.		
	6/28/77	1339	0:10	359	53.48N	1.73W	<del>-</del> 53•	.221		6/28/77	1804	4:35	390	72.22N	79.18W	-49.	.100	В	
	6/28/77	1349	0:20	391	54.68N	2.66W	-48.	.253	В	6/28/77	1809	4:40	390	71.97N	81.27W		-	8	
	6/28/77	1414	0:45	390	57.61N	5.51W	-44.	.086	В	6/28/77				71.69N	83.32W			В	
	6/28/77	1419	0:50	390	58.19N	6.14W	-43.	.088	8	6/28/77				/1.38N	85.34W			В	
	6/28/77	1434	1:05	390	59.83N	8.30W	-43.	.092	В	6/28/77	1824	4:55	390	71.06N	87.30W	-44.		В	
	6/28/77	1444	1:15	390	60.91N	9.85W	-44.	.092	В	6/28/77	1834	5:05	390	70.36N	90.96W			8	
	6/28/77	1454	1:25	390	62.02N	11.43W	-46.	.109	В	6/28/77	1844	5:15	410	69.59N	94.41W	-42.	.150	8	
	6/28/77	1504	1:35	390	63.11N	13.11W	-46.	.105	В	6/28/77	1854	5:25	410	68.77N	97.56W	-42.	•085	В	
	6/28/77	1509	1:40	390	63.64N	14.00W	-46.	.106	В	6/28/77	1904	5:35	410	67.95N	100.64W	-41.	•085	В	
	6/28/77	1514	1:45	390	64.17N	14.93W	-47.	.108	В	6/28/77	1909	5:40	410	67.52N	102.10W	-41.	.074	8	
	6/28/77	1519	1:50	390	64.70N	15.89W	-46.	.102	В	6/28/77	1914	5:45	410	67.07N	103.50W	-42.	•087	B	
	6/28/77	1524	1:55	390	65.22N	16.89W	-46.	.108	В	6/28/77	1919	5:50	410	66.62N	104.85W	-41.	.064	В	
	6/28/77	1534	2:05	390	66.22N	19.19W	-45.	• Ì 26	В	6/28/77	1924	5:55	410	66.15N	106.15W	-42.	.093	В	
	6/28/77	1544	2:15	390	67.17N	21.82W	-43.	.105	В	6/28/77	1934	6:05	410	65.19N	108.60W	-42.	.079	В	
	6/28/77	1554	2:25	390	68.08N	24.67W	-42.	·114	В	6/28/77	1949	6:20	410	63.71N	111.99W	-44.	.310		
	6/28/77	1604	2:35	390	68.95N	27.75W	-42.	.091	В	6/28/77	1959	6:30	370	62.71N	114.04W	-46.	.297		
	6/28/77	1609	2:40	390	69.37N	29.39W	-43.	.094	В	6/28/77	2004	6:35	370	62.13N	114.74W	-45.	.308		
	6/28/77	1614	2:45	390	69.75N	31.10W	-43.	.083	В	6/28/77	2009	6:40	370	61.49N	115.21W	-48.	.282		
	6/28/77	1619	2:50	390	70.11N	32.88W	-45.	.077	В	6/28/77	2014	6:45	370	60.85N	115.66W	-49.	.285		
	6/28/77	1634	3:05	390	71.08N	38.60W	-45.	.087	В	6/28/77	2019	6:50	370	60.21N	116.09W	-48.	.309		
	6/28/77	1644	3:15	390	71.65N	42.68W	-45.	.070	В	6/28/77	2029	7:00	370	58.93N	116.91w	-48.	.321		
_	6/28/77	1654	3:25	390	72.14N	46.97W	-45.	.080	в	6/28/17	2039	7:10	370	57.66N	117.68W	-46.	.304		
Š	6/28/77	1704	3:35	390	72.52N	51.46W	-44.	.102	В	6/28/77	2049	7:20	370	56.41N	118.40W	-46.	.270		
æ	6/28/77	1709	3:40	390	72.68N	53.76W	-45.	.098	В	6/28/77	2059	7:30	370	55.14N	119.07W	-46.	•318		
	6/28/77	1714	3:45	390	72.81N	56.09W	-45.	.104	в	6/28/77	2104	7:35	370	54.51N	119.23W	-47.	.300		
	6/28/77	1719	3:50	390	72.90N	58.46W	-45.	.089	В	6/28/77	2109	7:40	370	53.85N	119.39W	-49.	•272		
	6/28/77	1724	3:55	390	72.98N	60.85W	-45.	.093	В	6/28/77	2114	7:45	370	53.20N	119.55W	-49.	.278		
	6/28/77		_		73.05N	65.60W			В	6/28/77	2119	7:50	370	52.56N	119.71W	-51.	.269		
	6/28/77				73.00N	70.33W			В	6/28/77		8:00	370	51.31N	119.99W	-57.	.153		
	6/28/77				72.66N	74.84W			В	6/28/77		8:05	370	50.73N	120.11W	-58.	.048		
	- · <b>-</b> · ·	- ·	•					* *		6/28/77		8:15	370	49.50N	120.37W	-57.	.040		



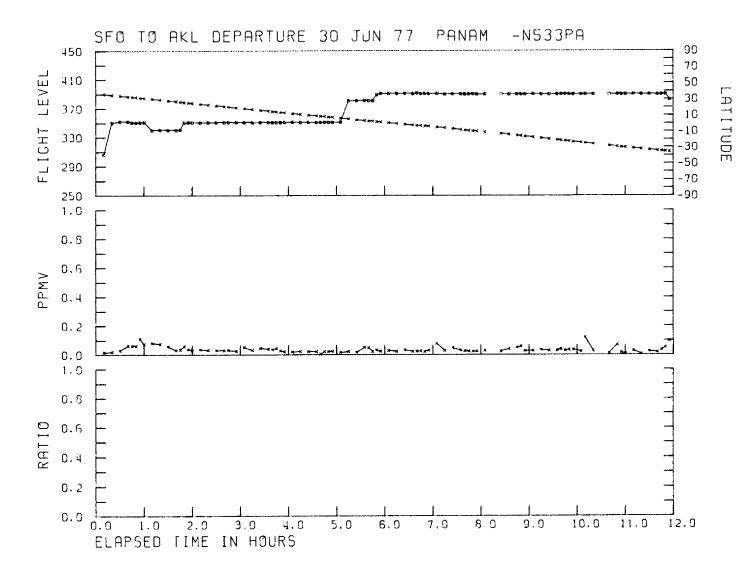
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .311 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 57 DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.		MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO
	6/29/77	0132	0:10	350	48.57N	119.37W	-51.	.065		6/29/77	0522	4:00	410	61.37N	62.21W	-46.	.085	В
	6/29/77	0142	0:20	370	49.24N	117.17W	<b>-</b> 56∙	.051		6/29/77	0532	4:10	410	61.39N	59.18W	-46.	.079	В
	6/29/77	0152	0:30	370	50.14N	115.20W	-54.	.090		6/29/77	0542	4:2U	410	61.29N	56.20W	-46.	•073	В
	6/29/77	0202	0:40	370	51.25N	113.35W	-56•	.149		6/29/17	0552	4:30	410	61.14N	53.24W	-46.	• 094	В
	6/29/77	0207	0:45	371	51.78N	112.40W	-54•	.180		6/29/77	0602	4:40	410	60.91N	50.27W	-47.	.069	B
	6/29/77	0212	0:50	370	52.31N	111.44W	<b>-54</b> •	.207		6/29/77	0607	4:45	410	60.80N	48.79W	-46.	.087	В
	6/29/77	0222	1:00	370	53.31N	109.50W	-53•	.270		6/29/77	0612	4:50	410	60.69N	47.30W	-48.	.075	.8
	6/29/77	0232	1:10	390	54.24N	107.53W	-48.	.299		6/29/77	0617	4:55	410	60.55N	45.82W	-48.	•096	В
	6/29/77	0242	1:20	391	55.14N	105.50W	-49.	.302		6/29/77	0627	5:05	410	60.23N	42.88W	-47.	.087	8
	6/29/77	0252	1:30	391	55.98N	103.41W	-49.	•260		6/29/77	0637	2:12	410	59.86N	39.98W	-48.	•095	В
	6/29/77	0302	1:40	391	56.79N	101.24₩	-49.	.295		6/29/77	0647	5:25	410	59.64N	37.05W	-47.	•077	В
	6/29/77	0307	1:45	391	57.12N	100.10W	-48.	. 282		6/29/77	0657	5:35	410	59.36N	34.16W	-47.	•090	ㅂ
	6/29/77	0317	1:55	391	57.76N	97.76W	-48.	.278		6/29/77	0702	5:40	410	59.20N	32.73¥	-46.	-104	B
	6/29/77	0322	2:00	391	58.08N	96.52W	-47.	.268		6/29/77	0707	5:45	410	59.02N	31.31W	-46.	.092	В
	6/29/77	0327	2:05	391	58.38N	95.27W	-46.	.262		.6/29/77	0712	5:50	410	58.82N	29.90W	-47.	.080	8
	6/29/77	0337	2:15	391	58.94N	92.64W	~46.	<b>.</b> 285		6/29/77				58.60N	28.52W	-46.	.088	В
	6/29/77	0347	2:25	391	59.42N	89.97W	-46.	.311		6/29/77	0727	6:05	410	58.11N	25.82W	-47.	•109	В
	6/29/77	0357	2:35	391	59.81N	87.19W	-48.	.108	В	6/29/77	0737	6:15	410	57.56N	23.17W	-49.	.073	8
	6/29/17	0412	2:50	391	60.29N	83.01W	-47.	·110	В	6/29/77	0747	6:25	410	56.97N	20.66W	-50.	•135	8
	6/29/77	0417	2:55	391	60.42N	81.58W	-48.	.103	В	6/29/77	0757	6:35	410	56.72N	18.01W	-51.	•090	В
	6/29/77	0422	3:00	391	60.54N	80.13W	-46.	.085	8	6/29/77	2080			56.61N	16.68W	-52.	.094	В
_	6/29/77	0427	3:05	391	60.65N	78.67W	-46.	.102	В	6/29/77	0807	6:45	410	56.49N	15.40W	-53.	.083	В
Σ	6/29/77	0442	3:20	391	60.88N	74.20W	-46.	.092	8	6/29/77	0812	6:50	410	56.36N	14.13W	-52.	•067	8
œ	6/29/77	0452	3:30	391	60.95N	71.17W	-46.	.105	В	6/29/77	0817	6:55	410	56.21N	12.85W	-52.	.082	В
	6/29/77	0502	3:40	391	61.09N	68.18W	-45.	.117	8	6/29/77	0827	7:05	410	55.88N	10.33W	-52.	.095	В
	6/29/77	0507	3:45	391	61.19N	66.70W	-45.	.073	В	6/29/77	0837	7:15	410	55.14N	8.17W	-51.	.104	В
	6/29/77	0512	3:50	391	61.26N	65.21W	-46.	.076	В	6/29/77	0847	7:25	410	54.43N	6.07W	-51.	.257	
	6/29/77	0517	3:55	393	61.32N	63.70W	-46.	.087	В	6/29/77	0857	7:35	410	53.63N	4.05W	-50.	.225	
										6/29/77	0902	7:40	410	53.17N	3.16W	-49.	.253	



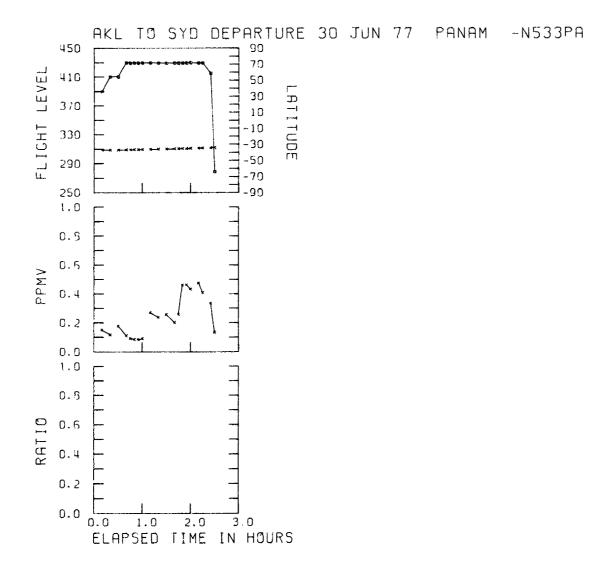
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .292 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 69
DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV)	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.		
	6/29/77	1256	0:10	310	53.51N	1.93W	-49.	.054		6/29/77	1726	4:40	390	67.82N	76.67W	-45.	.096	В	
	6/29/77	1306	0:20	311	54.57N	3.10W	-49.	.053		6/29/77	1731	4:45	390	67.64N	78.40W	-44.	.075	В	
	6/29/77	1321	0:35	312	56.11N	4.98W	-48.	.047		6/29/77	1736	4:50	390	67.44N	80.12W	-44.	.075	В	
	6/29/77	1326	0:40	367	56.56N	5.72W	-60.	.077		6/29/77	1741	4:55	390	67.22N	81.80M	-44.	.084	В	
	6/29/77	1331	0:45	370	57.00N	6.49W	<b>~60</b> •	.161		6/29/77	1746	5:00	390	66.99N	83.44W	-43.	.108	8	
	6/29/77	1336	0:50	370	57.45N	7.28W	-60.	.135		6/29/77	1756			66.46N	86.63W	-42.	.086	В	
	6/29/77	1341	0:55	370	57.91N	8.07W	-60.	.152		6/29/77	1806			65.87N	89.66W	-43.	•095	В	
	6/29/77	1351	1:05	370	58.86N	9.72W	-54.	.231		6/29/77	1816	5:30	390	65.23N	92.55W	-44.	.106	В	
	6/29/77	1401	1:15	370	59.77N	11.50W	-47.	•267		6/29/77	1826	5:40	390	64.54N	95.29W	-43.	.081	В	
	6/29/77	1411	1:25	370	60.71N	13.49W	-42.	.292		6/29/77	1831			64.17N	96.59W	-44.	.079	8	
	6/29/77	1421	1:35	370	61.61N	15.63W	-40.	.269		6/29/77	1836	5:50	390	63.77N	97.81W	-44.	.081	В	
	6/29/77	1426	1:40	389	62.06N	16.78W	-41.	.268		6/29/77	1841	5:55	390	63.35N	99.01W	-44.	.097	В	
	6/29/77	1431	1:45	390	62.48N	17.92W	-40.	.142	В	6/29/77	1846	6:00	390	62.94N	100.17W	-43.	.092	8	
	6/29/77	1436	1:50	390	62.90N	19.13W	-40.	.095	В	6/29/77	1856	9:10	390	62.12N	102.49W	-44.	.084	8	
	6/29/77	1441	1:55	390	63.31N	20.36W	-40.	.109	В	6/29/77	1906	6:20	390	61.26N	104.69W	-45.	.112	8	
	6/29/77	1501	2:15	390	64.90N	25.61W	-41•	.096	8	6/29/77	1916	6:30	390	60.38N	106.75W	-44.	.097	8	
	6/29/77	1511	2:25	390	65.63N	28.39W	-42.	.101	В	6/29/77	1926	6:40	390	59.44N	108.65W	-46.	.089	В	
	6/29/77	1521	2:35	390	66.33N	31.30W	-43.	.095	В	6/29/77	1931	6:45	390	58.84N	109.27W	-47.	.104	В	
	6/29/77	1526	2:40	390	66.67N	32.82W	-43.	.081	В	6/29/77	1936	6:50	390	58.23N	109.88W	-47.	.093	В	
	6/29/77	1531	2:45	390	67.00N	34.38W	-43.	.070	В	6/29/77	1946				111.02W	-47.	•079	8	
	6/29/77	1536	2:50	390	67.32N	35.99W	-42.	.080	В	6/29/77	1956	7:10	393	55.72N	112.05W	-46.	.120		
	6/29/77	1541	2:55	390	67.62N	37.63W	-44.	.086	В	6/29/77	2006	7:20	410	54.40N	113.02W	-46.	.094	8	
<u> </u>	6/29/77	1551	3:05	390	68.14N	41.03W	-45.	.080	8	6/29/77	2021	7:35	410	52.43N	114.35W	-46.	.094	8	
87	6/29/77	1601	3:15	390	68.56N	44.62W	-44.	.070	В	6/29/77	2041	7:55	410	49.75N	115.96W	-52.	.093	B	
	6/29/77	1611	3:25	390	68.90N	48.42W	<b>-45</b> •	.084	B	6/29/77	2046	8:00	409	49.11N	116.43W	-50.	.089	В	
	6/29/77	1621	3:35	390	69.18N	52.31W	-45.	.073	В	6/29/77	2051			48.46N	116.93W	-55.	.090	в	
	6/29/77	1626	3:40	390	69.24N	54.27W	-45.	.063	В	6/29/77	2101	8:15	410	47.24N	117.86W	-65.	.113		
	6/29/77	1631	3:45	390	69.19N	56.24W	-45•	.081	8	6/29/77	2111	8:25	409	46.02N	118.74W	-66.	.037		
	6/29/77	1636	3:50	390	69.11N	58.19W	-45.	.097	В	6/29/77	2121	8:35	410	44.78N	119.60W	-65.	.053		
	6/29/77	1641	3:55	390	69.00N	60.13W	-45.	.074	В	6/29/77	2131			43.43N	120.15W	-65.	.032		
	6/29/77	1651	4:05	390	68.73N	63.92W	-46.	.086	В	6/29/77	2136				120.39W	-64.	.043		
	6/29/77	1656	4:10	390	68.57N	65.79W	-46.	.087	В	6/29/77	2141	8:55	410	42.14N	120.75W	-62.	.038		
	6/29/77	1706	4:20	390	68.35N	69.53W	-45.	.075	В	6/29/77	2146	9:00	410	41.56N	121.18W	-64.	.049		
	6/29/77	1716	4:30	390	68.13N	73.16W	-44.	.093	В	6/29/77	2152			40.79N	121.73W		.052		
										6/29/77	5505	9:16	409	39.60N	122.37W	-62.	.080		



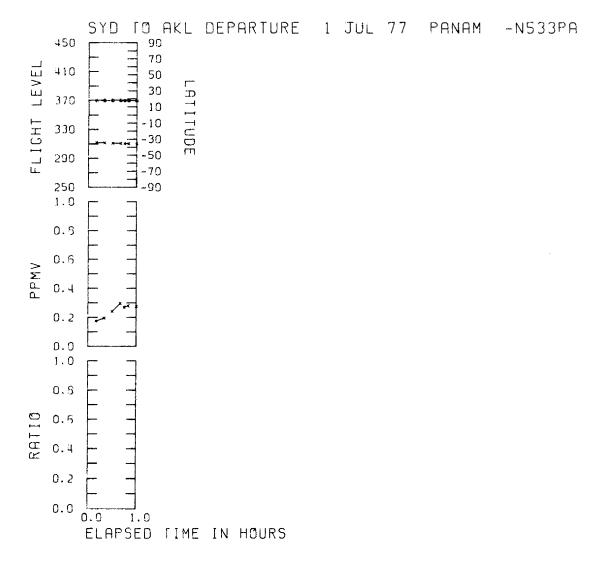
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .119 'RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 90 DATA SOURCE: GASP TAPE VL010, FILE 4

	DA 1 A 3001		A3. 1A.	_ ,,		C <b>C</b> 4												
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) CABIN AMB.	RATIO
	6/30/77	0601	0 • 1 0	306	36 . 22N	124.65W	- 25	.018		6/30/77	1146	5:55	391	1.42N	155.42W	-55.	.024	
	6/30/77				35.25N	125.70W				6/30/77		6:05		.46N	156.34W		.029	
	6/30/77				34.26N	126.71W				6/30/77		6:15	-	•52S	157.26W		.023	
	6/30/77				33.26N	127.70W				6/30/77		6:25	_	1.485	158.17W		.034	
	6/30/77				32.76N	128.19W				6/30/77		6:35		2.445	159.08W		.023	
	6/30/77				32.25N					6/30/77		6:40	392	2.845	159.60W		.025	
	6/30/77				31.75N					6/30/77		6:45		3.145	160.22W		.027	
	6/30/77				31.25N					6/30/77		6:50		3.445	160.85W		.023	
	6/30/77	-			30.22N	130.54W				6/30/77		6:55		3.655	161.53W		.031	
	6/30/77				29.17N					6/30/77		7:05		4.695	162.39W		•077	
	6/30/77				28.11N	132.43W				6/30/77		7:15		5.875	163.11w		.030	
	6/30/77	0731	1:40	340	27.03N	133.36W				6/30/77	1316	7:25	391	7.01S	163.92W	-56.	• 047	
	6/30/77	0736	1:45	341	26.50N	133.81W				6/30/77	1326	7:35	391	8.205	164.68W	-55.	.031	
	6/30/77	0741	1:50	351	25.98N	134.25W	-44.	.059		6/30/77	1331	7:40	390	8.775	165.06W	-55.	.027	
	6/30/77	0746	1:55	351	25.45N	134.69W	-43.	.039		6/30/77	1336	7:45	390	9.265	165.55W	-55.	.024	
	6/30/77	0751	2:00	351	24.93N	135.12W	-44.	.030		6/30/77	1341	7:50	390	9.755	166.03W	-55.	.024	
	6/30/77	0801	2:10	351	23.89N	135.97W	-44.	.037		6/30/77	1346	7:55	390	10.235	166.51W	-55.	.025	
	6/30/77	0811	2:20	351	22.84N	136.81W	-45•	.032		6/30/77	1356	F: 4 .	_		167.49W	∽55.	.029	
	6/30/77				21.79N	137.63W				6/30/77				13.145	169.46W		•025	
	6/30/77	0831	2:40	351	20.73N	138.44W	-45•			6/30/77				,	170.46W		•040	
	6/30/77				20.21N	138.84W				6/30/77					171.29W		.051	
≯	6/30/77				19.18N					6/30/77					171.65W			
2	6/30/77				18.17N	140.47W				6/30/77		er :			172.03W		.027	
86	6/30/77				17.13N	141.28W				6/30/77		2 -			172.76W		.028	
	6/30/77				16.08N	142.09W				6/30/77					173.49W		.034	
	6/30/77				15.06N	142.87W				6/30/77					174.23W		.028	
	6/30/77		-		14.54N	143.26W				6/30/77					174.97W		.031	
	6/30/77				14.02N	143.66W				6/30/77					175.32W			
	6/30/77				13.49N	144.05W				6/30/77					175.63W		•029	
	6/30/77				12.97N	144.44W				6/30/77					175.94W			
	6/30/77				11.96N	145.25W				6/30/77					176.26W		.035	
	6/30/77				11.01N	146.19₩	-			6/30/77			_		176.90W		.023	
	6/30/77				10.07N	147.13W				6/30/77	-		~		177.22W	4		
	6/30/77	_		-	9.13N	148.05W	-	•		6/30/77					177.77W		.027 .012	
	6/30/77		4:40			148.51W				6/30/77 6/30/77					179.37W			
	6/30/77		4:45			148.97W		.022 .024		6/30/77			-		179.64W		.068 .017	
	6/30/77		4:50		7.70N	149.44W	-			6/30/77					179.99E		.006	
	6/30/77	_	4:55		7.22N	149.91W	_			6/30/77		- ,			179.24E		.029	
	6/30/77		5:05		6.34N	150.93W		.018		6/30/77					178.49E		.006	
	6/30/77		5:15		5.21N	151.67W				6/30/77					177.75E		.024	
	6/30/77		5:26		4.11N	152.49W									176.99E		.018	
	6/30/77		5:35			153.47W				6/30/77		11:45			176.62E		.034	
	6/30/77		5:40		2.78N	153.96W				400					176.82E		•050	
	6/30/77		5:45		2.34N	154.46W		.023							175.86E			
	6/30/77	1141	5:50	389	1.90N	154.96W	-54•	.033		0/30/11	1140	11122	202	23.383	112.005	-33.	•098	



MAXIMUM VALUES: AMBIENT UZONE=\*\*\*\*\* CABIN OZONE= .475 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 20 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

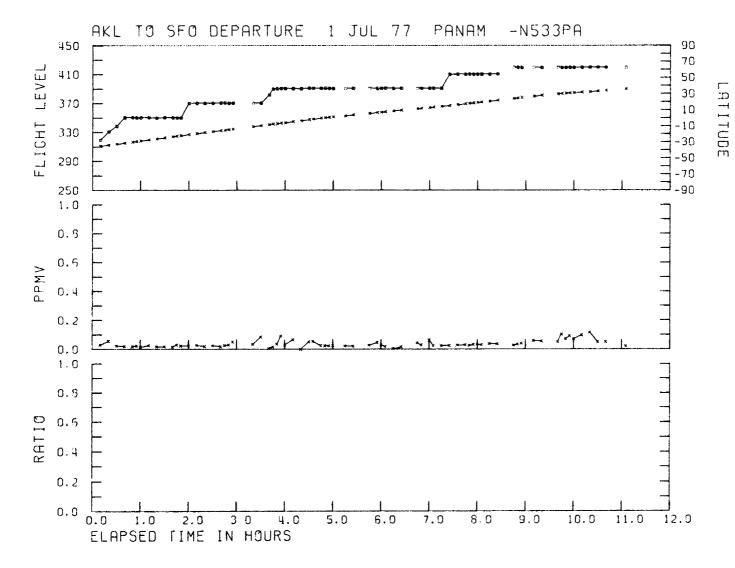
`	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG TEM	P OZONE(PPMV) RATIO CABIN AMB.	MOZNAZYR	GMT	ETIM , FL HR:MN	LAT	LONG		OZONE(PPMV) R CABIN AMB.	OITAS
1	6/30/77	8605	0:10	390	36.90\$	172.88E -55	. 149	6/30/77	2158	1:30 429	35.705	161.54E	-47.	•256	
	6/30/77	2048	0:20	410	36.835	171.61E -55	118	6/30/77	2208	1:40 430	35.455	160.06E	-46.	.202	
	6/30/77	2058	0:30	410	36.735	170.30E -55	177	6/30/77	2213	1:45 430	35.325	159.31E	-46.	.257	
	6/30/77	2108	0:40	430	36.615	168.94E -56	• 111	6/30/77	2218	1:50 430	35.185	158.55£	-47.	•462	
	6/30/77	2113	0:45	430	36.545	168.22E -53	092	6/30/77	2223	1:55 430	35.045	157.78E	-46.	•463	
	6/30/77	2118	0:50	430	36.47S	167.50E -50	085	6/30/77	2228	2:00 430	34.895	157.00E	-46.	•433	
	6/30/77	2123	0:55	429	36.395	166.76E -50	085	6/30/77	2238	2:10 430	34.585	155.50E	-45.	•475	
	6/30/77	2128	1:00	430	36.315	166.03E -50	092	6/30/77	2243	2:15 430	34.425	154.76E	-47.	.408	
	6/30/77	2138	1:10	430	36.135	164.56E -49	270	6/30/77	2253	2:25 415	34.185	153.26E	-46.	•335	
	6/30/77	2148	1:50	430	35.925	163.05E -47	237	6/30/77	2258A	2:30 279	34.125	152.51E	-46.	.133	



SYD TO AKL (PAGE 1 OF 1) DEPARTURE: 1 JUL 77 AIRCRAFT: PANAM -N533PA

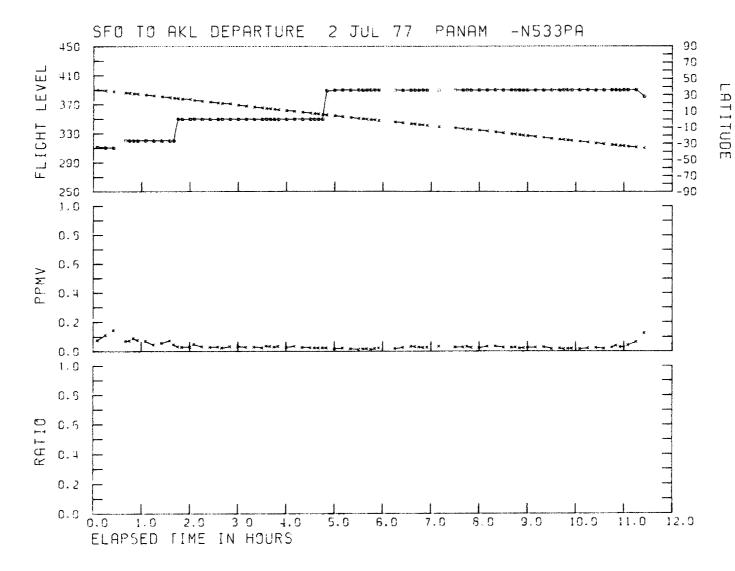
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .296 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 7
DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HŘÍMN	LONG TEMP OZONE(PPMV) RATIO
	0:20 370 34.545	153.44E -48176 155.18E -45196 156.95E -46243	7/ 1/77 0541 0:40 370 35.24\$ 7/ 1/77 0546 0:45 370 35.40\$ 7/ 1/77 0551 0:50 370 35.56\$ 7/ 1/77 0601 1:00 370 35.85\$	159.65E -46270 160.58E -46279



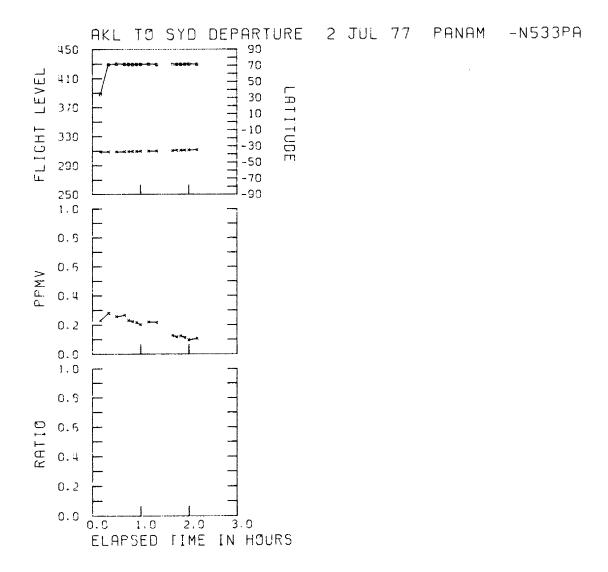
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .116 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 73
DATA SOURCE: GASP TAPE VL010, FILE 4

					•												
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL LAT	LON	G TEMP (C)	OZONE (PPMV) CABIN AMB.	
	7/1/77	0041	0.10	210	34 000	176.31E	- 4.0	.030		7/ 1/77	1445	5:16 3	91 2.76	N 162.8	1W -57.	.023	
	7/ 1/77 7/ 1/77				34.98S 33.72S	177.21E				7/ 1/77		5:26 3		N 161.8			
					32.435	178.08E				7/ 1/77		5:47 3		N 160.0			
	7/ 1/77 7/ 1/77				31.145	178.94E				7/ 1/77		5:56 3			1W -55.		
	7/ 1/77				29.835	179.78E				7/ 1/77		6:01 3			3W -55.		
	7/ 1/77				29.165	179.80W				7/ 1/77		6:06 3			5W -56.		
	7/ 1/77				28.485	179.38W				7/ 1/77				N 157.1			
	7/ 1/77				27.15S	178.58W				7/ 1/77				N 156-1			
	7/ 1/77				25.805	177.79W		and the second s		7/ 1/77			91 11.42		4W -55.		
	7/ 1/77				24.465	177.02W				7/ 1/77			91 11.88		1W -55.		
	7/ 1/77				23.125	176.27W				7/ 1/77				N 152.5			
	7/ 1/77				22.435	175.89W				7/ 1/77				N 152.0			
	7/ 1/77				21.755	175.52W				7/ 1/77				N 150.9			
	7/ 1/77				20.485	174.73W				7/ 1/77				N 149.8			
	7/ 1/77				19.275	173.91W				7/ 1/77		7:36 4	10 16.29	N 149.0	6W -61.	.028	
	7/ 1/77				18.07S	173.12W				7/ 1/17		7:46 4	10 17.40	N 148.2	6W -62.	.030	
	7/ 1/77				16.875	172.33W				7/ 1/77		7:51 4	10 17.96	N 147.8	5W -61.	.026	
	7/ 1/77				15.698	171.57W				7/ 1/77	1725	7:56 4	10 18.51	N 14/-4	3w -61.	.032	
	7/ 1/77				15.115	171.20W				7/ 1/77		8:01 4	10 19.07	'N 147.0	2W -62	•033	
	7/ 1/77				14.525	170.82W	_			7/ 1/77		8:06 4	10 19.63	IN 146.5	9W -62.	.030	
	7/ 1/77				13.905	170.52W				7/ 1/77	1745	8:16 4	10 20.79	N 145.7	4W -62.	.038	
	7/ 1/77				10.705	169.32W	-			7/ 1/77		8:26 4	10 21.88	IN 144.8	6W -62	.037	
₹	7/ 1/77				9.435	168.85W				7/ 1/77	1815	8:46 4	20 24 <b>.</b> 16	N 143.0	4w -63.	.027	
A-295	7/ 1/77		3:41			168.45W	-54.	.006		7/ 1/77	1820	8:51 4	20 24.72	N 142.5	8W -63	.034	
	7/ 1/77		3:46			168.23W	-56.	.016		7/ 1/77	1825	8:56 4	19 25.29	N 142.1	1w -63		
	7/ 1/77	1320	3:51	390	6.975	167.89W	-56.	.035		7/ 1/77	1840			N 140.7			
	7/ 1/77	1325	3:56	391	6.405	167.57W	-56•	.091		7/ 1/77				N 198•1			
	7/ 1/77	1330	4:01	391	5.82S	167.25W	-56	.029		7/ 1/77				BN 137.3			
	7/:1/77	1341	4:12	391	4.60S	166.70W	-56.	.065		7/ 1/77	1915		19 30.07		OW -59		
	7/ 1/77	1350	4:21	390	3.375	166.22W	-56•	.000		7/ 1/77			19 30.4		18W -59		
	7/ 1/77	1400	4:31	391	2.085	165.92W	<b>-55•</b>	.051		7/ 1/77			_	N 135.1			
	7/ 1/77	1405	4:36	391	1.435	165.76W	-57•	.054		7/ 1/77				N 134.4			
	7/ 1/77	1415	4:46	391	•17S	165.46W	-56•	.025		7/ 1/77			20 31.7		2W -56		
	7/ 1/77	1420	4:51	391	.38N	165.06W	-56.			1/ 1/77			20 32.44		3₩ -55		
	7/ 1/77	1425	4:56	391	.86N	164.61W	-56.			7/ 1/77			20 33.28		5W -55		
	7/ 1/77	1430	5:01	391	1.34N	164.15W	-56•	.025		7/ 1/77				N 128.6			
										7/ 1/77	2034	11:05 4	ZU 36.00	IN 125.2	TM -2	021	



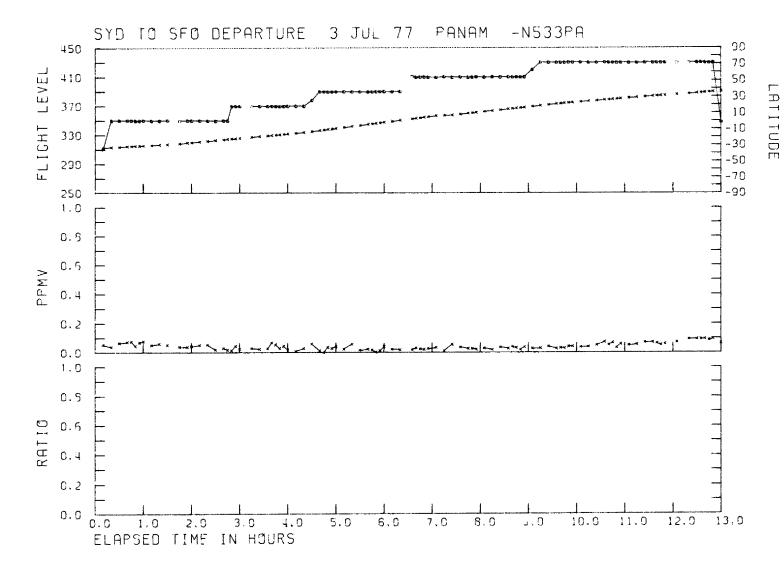
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .146 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 85
DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/Y		ETIM			LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM F HŘÍMN	L LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO
MO/DA/Y  7/ 2/7  7/ 2/7  7/ 2/7  7/ 2/7  7/ 2/7  7/ 2/7  7/ 2/7  7/ 2/7  7/ 2/7  7/ 2/7  7/ 2/7		HR:MN 0:09 0:19 0:29 0:44 0:49 0:54 0:59 1:09 1:19 1:29 1:44 1:49	312 311 311 321 320 320 320 320 320 320 320 320 320		124.55W 125.62W 126.65W 128.70W 129.20W 129.70W 130.69W 131.69W 132.66W 134.14W 134.62W	-37. -36. -36. -40. -39. -41. -41. -41. -39. -38. -46.	CABIN AMB.  .077 .112 .146 .071 .073 .090 .077 .071 .046 .057 .075 .047 .033	RATIO	7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77	1145 1150 1155 1220 1230 1240 1245 1255 1300 1315 1331 1341	HŘÍMN 5:44 39 5:49 39 5:59 39 6:19 39 6:29 39 6:44 39 6:44 39 6:59 39 7:14 39 7:30 39	0 .04N 0 .46S 0 .97S 0 1.47S 0 3.49S 0 4.52S 0 5.54S 0 6.05S 0 6.55S 0 7.05S 0 7.55S 1 9.07S 0 10.70S 0 11.70S	156.73W 157.21W 157.69W 158.17W 160.08W 161.07W 162.04W 162.52W 163.47W 163.47W 163.42W 165.42W 167.02W	-56. -56. -56. -55. -56. -56. -56. -56.	CABIN AMB.  .017 .013 .019 .023 .019 .027 .034 .031 .029 .024 .027 .034 .029	RATIO
7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7		1:54 2:00 2:09 2:19 2:29 2:39 2:44 2:50	350 350 350 350 350 350 350 350		135.09W 135.55W 136.44W 137.33W 138.20W 139.07W 139.52W 139.97W	-46. -47. -46. -46. -46. -46. -46.	.030 .030 .050 .033 .029 .031 .025 .033			1341 1347 1352 1401 1411 1421 1431 1441 1446	7146 39 7151 39 8100 39 8110 39 8120 39 8130 39 8140 39 8145 39	0 11.70S 1 12.20S 0 12.70S 0 13.67S 0 14.68S 1 15.82S 0 16.97S 0 18.09S 0 18.64S 0 19.20S	168.52W 169.02W 170.01W 170.93W 171.65W 172.39W 173.13W 173.49W	-56. -57. -56. -57. -57. -57.	.033 .025 .025 .034 .035 .027 .027	
9 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7	77 0925 77 0925 77 0940 77 0945 77 0950 77 1005 77 1015	3:24 3:39 3:44 3:49 3:54 4:04	350 350 350 350 350 350 350	14.91N 13.79N 13.23N 12.66N 12.10N 11.59N 10.56N 9.52N	142.98W 143.82W 144.24W 144.66W 145.10W 145.62W 146.64W 147.67W	-46. -46. -46. -46. -46. -45.	.030 .025 .037 .036 .031 .035 .029		1/ 2/11 1/ 2/17 1/ 2/11 1/ 2/11 1/ 2/11 1/ 2/11 1/ 2/11 1/ 2/11 1/ 2/11	1456 1501 1511 1521 1531 1541 1546 1552	8155 39 9100 39 9110 39 9120 39 9130 39 9140 39 9145 39	0 19.75S 0 20.29S 0 21.36S 0 22.49S 0 23.60S 0 24.71S 0 25.26S 0 25.81S	174.24W 174.61W 175.31W 175.92W 176.54W 177.16W 177.447W	-56. -57. -57. -57. -57. -56.	.023 .027 .027 .030 .018 .022 .015	
7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7 7/ 2/7	77 1035 77 1040 77 1045 77 1050 77 1055 77 1105 77 1115 77 1125 77 1135 77 1140	4:34 4:39 4:44 4:49 4:54 5:04 5:14 5:24	350 350 350 350 389 390 390 390	7.36N 6.82N 6.28N 5.75N 5.22N 4.17N 3.13N 2.10N 1.07N	149.77w 150.29w 150.81w 151.32w 151.82w 152.82w 153.80w	-44. -45. -45. -55. -56. -56.	.026 .025 .024 .025 .024 .019 .022		7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77 7/ 2/77	1607 1617 1626 1636 1646 1651 1656 1701 1706 1716	10:06 39 10:16 39 10:25 39	0 27.44S 0 28.47S 0 29.48S 0 30.50S 0 31.49S 0 32.45S 0 32.92S 0 33.38S 0 34.29S	178.75W 179.37W 180.00W 179.35E 178.71E 178.07E 177.75E 177.44E 176.80E	-55. -56. -57. -57. -57. -57. -57. -55.	.016 .022 .024 .019 .028 .040 .030 .027 .043	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .281 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 16 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR G		ETIM R:MN		LAT	LONG		OZONE(PPMV) RATIO CABIN AMB•	MO/DA/YR	GMT	ETIM HR:MN	_	LAT	LONG		OZONE(PPMV) CABIN AM8.	RAT10
7/ 2/77 20	01	0:10	388	36.898	172.65E	-47.	.230	7/ 2/77	2101	1:10	430	36.035	163.75E	-52.	•221	
7/ 2/77 20	11	0:20	429	36.815	171.19E	-48.	.281	7/ 2/77	2111	1:20	429	35.825	162.21E	-51.	.217	
7/ 2/77 20	21	0:30	430	36.695	169.71E	-48.	.258	7/ 2/77	2131	1:40	430	35.33\$	159.21E	-54.	.128	
7/ 2/77 20	31	0:40	430	36.558	168.22E	-49.	•268	7/ 2/77	2136	1:45	429	35.195	158.47E	-55.	.117	
7/ 2/77 20	36	0:45	430	36.485	167.45E	-48.	.232	7/ 2/77	2141	1:50	430	35.05S	157.73E	-54.	.124	
7/ 2/77 20	+ 1	0:50	429	36.405	166.69E	-50.	.223	7/ 2/77	2146	Ì:55	430	34.915	15/.00E	-55.	.114	
7/ 2/77 20	46	0:55	430	36.31S	165.94E	-51.	.217	7/ 2/77	2151	2:00	430	J4.77S	156.27E	-56.	.097	
7/ 2/77 20	ë l	1:00	430	36.225	165.21E	-51.	.201	7/ 2/77	2201	5:10	430	34.465	154.80E	-56.	.107	



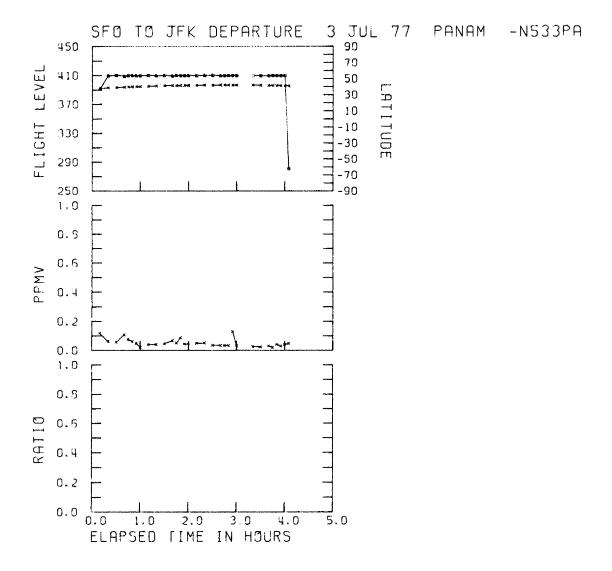
SYD TO SFO (PAGE 1 OF 2) DEPARTURE: 3 JUL 77 AIRCRAFT: PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\* CABIN OZONE= .095 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 99
DATA SOURCE: GASP TAPE VL010, FILE 4

DATA SOOK	· · · · · ·	731 (7)	_ ,,	_0109 11													
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (P	RATIO
7/ 3/17	0530	0:10	311	33.255	153.70E	-46.	. 055		7/ 3/77	1139	6:10	390	.795	165.71W	-55.	.022	
7/ 3/77				32.795	155.29E				7/ 3/77		6:20		.45N	165.26W		.018	
7/ 3/77			_	32.335	156.89E				7/ 3/77		6:35	410	2.27N	164.53W	-61.	.020	
7/ 3/77				31.805	158.45E				7/ 3/77		6:40	410	2.88N	164.33W	-61.	.031	
7/ 3/77				31.485	159.21E				7/ 3/77		6:45	410	3.50N	164.12W	-61.	.025	
7/ 3/77		-		31.285	160.04E				7/ 3/77		6:50	410	4.11N	163.91W	-61.	.022	
7/ 3/77				31.065	160.87E				7/ 3/77	1224	6:55	410	4.73N	163.71W	-6l·	.027	
7/ 3/77				30.845	161.71E				7/ 3/77	1234	7:05	409	5.97N	163.24W	-61.	.035	
7/ 3/77		_			163.39E				7/ 3/77	1244	7:15	410	6.64N	162.33W	-61.	.012	
7/ 3/77				29.895	165.10E				7/ 3/77		7:25	409	6.86N	161.03W	-61.	•056	
7/ 3/77		_			166.82E				7/ 3/77	1304	7:35	410	7.90N	160.27W	-60.	.037	
7/ 3/77		-		28.295	169.22E				7/ 3/77	1314	7:45	409	8.94N	159.50W	-6l·	.026	
7/ 3/77		-		27.425	170.73E				7/ 3/17	1319	7:50	409	9.48N	159.10W	-60.	.027	
7/ 3/77				26.985	171.48E	-46.	.044		7/ 3/77	1324	7:55	410	10.01N	158.71W	<b>-01</b> .	.022	
7/ 3/77		2:10	350	26.095	172.94E				7/ 3/77	1334	8:05	409	11.07N	157.91#	-61.	.030	
7/ 3/77	0749	2:20	350	25.195	174.39E	-46.	.054		7/ 3/77		8:12	410	12.14N	157.10W	<b>-61</b> .	•019	
7/ 3/77	0759	2:30	350	24.275	175.81E	-46.	.020		7/ 3/77					156.30W		.037	
7/ 3/77	0809	2:40	350	23.385	177.17E	-46.	.030		7/ 3/77					155.49W		.028	
7/ 3/77	0814			22.935	177.83E				7/ 3/77					155.08W		.040	
7/ 3/77	0819	2:50	370	22.50\$	178.46E	-51•	.014		7/ 3/77	1414	8:45			154.67W			
7/ 3/77	0824	2:55	370	22.065	179.10E		.044		7/ 3/77	1419	8:50			154.25W		.020	
7/ 3/77	0859	3:00	370	21.625	179.73E		.025		7/ 3/17	1424	8:55			153.84W		.038	
A 7/ 3/17				20.305	178.43W		.029		1/ 3/11	1434	9:05			153.00W	-	.029	
				19.415	177.21W		.024		1/ 3/11 7/ 3/11 7/ 3/17 7/ 3/17 7/ 3/11 7/ 3/17 7/ 3/17 7/ 3/17	1444	9:15			152.14W		.030	
7/ 3/77				18.525	176.03W		.027		1/ 3/11	1454	9:25			151.26W		.043	
7/ 3/77		-		18.085	175.44W		.068		1/ 3/11	1504	9.33			150.38W		.028	
7/ 3/77				17.63\$	174.86W		.055		1/ 3/11	1509	9:40			149.91W 149.37W		.032	
7/ 3/77				17.195	174.29W		.029		7/ 3/11	1514	9:40		21.50N 21.92N	149.37W		•030	
7/ 3/77				16.758	173.72W		.044		7/ 3/77 7/ 3/77	191,			22.34N			.043 .043	
7/ 3/77				16.315	173.17W				7/ 3/17		-			147.18W			
7/ 3/77				15.435	172.06W				7/ 3/77		-			146.05W		.040	
7/ 3/77				14.545	170.95W				7/ 3/77					144.91W			
7/ 3/17	1000			13.35\$	170.33W				7/ 3/77					143.74W			
7/ 3/77				12.125	169.86W				7/ 3/17					143.14W			
7/ 3/77				11.485	169.62W				7/ 3/77				26.54N	142.53W			
7/ 3/77				10.845	169.38W				7/ 3/77					141.91W			
7/ 3/77				10.235	169.15W				7/ 3/77				27.38N			.059	
7/ 3/77		5:00			168.92W				7/ 3/77					140.05W		.052	
7/ 3/77		5:10			168.44₩				7/ 3/77				28.98N	138.77W		.056	
7/ 3/77	_	5:20	_		167.98W				7/ 3/77				29.66N	137.43W		.071	
7/ 3/77		5:30			167.53W				7/ 3/77					136.06W		.071	
7/ 3/77		5:40			167.06W				7/ 3/77					135.38W			
7/ 3/77		5:45			166.83W				7/ 3/17					134.69W			
7/ 3/77		5:50			166.60W				7/ 3/77	1710	11:50	430	31.28N	134.00W			
7/ 3/77		5:55			166.38W				7/ 3/77	1734	12:05	429	32.21N	131.88W	-65	.072	
7/ 3/77	1129	6:00	390	2.035	166.15W	-20•	.040		17 3/11	1134	12.00						

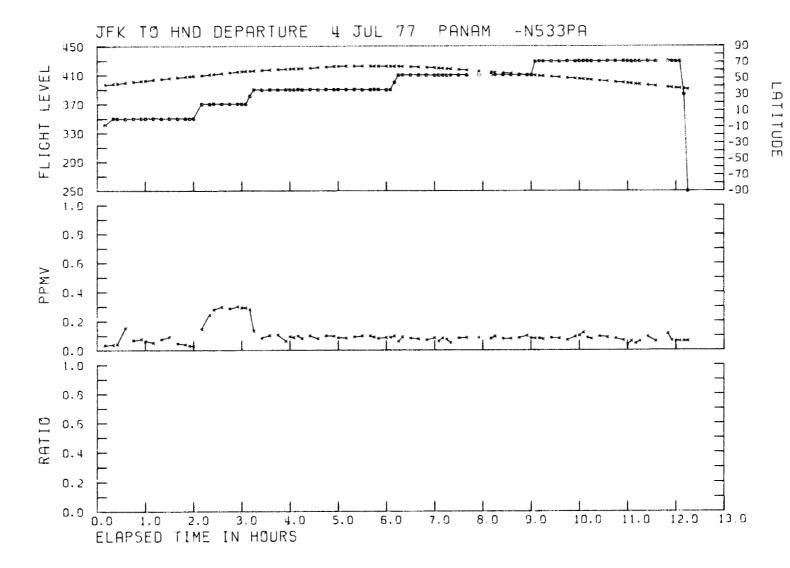
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .095 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 99
DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR G	мт	ETIM FL HR:MN	LAT			OZONE(PPMV) RATIO	MO/DA/YR (	GMT	ETIM FL HR:MN	LAT		P OZONE(PPMV) RATIO CABIN AMB.
7/ 3/77 17 7/ 3/77 1/ 7/ 3/77 18	59	12:30 430	33.99N	128.42W	-63•	.093	7/ 3/77 1 7/ 3/77 1	814 819	12:45 429 3 12:50 430 3	35.21N 35.62N	127.07W -63 126.37W -62 125.66W -62 124.23W -49	087 095



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .132 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 32 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT			OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE ( CABIN	RATIO
7/ 3/77 2	2227	0:10	391	38.34N	120.11W -	-57•	.118		7/ 4/77	0027	2:10	410	42.03N	97.32W	-59.	.051	
7/ 3/77 2	2237	0:20	410	38.81N	118.33W -	-58•	.063		7/ 4/77	0037	2:20	410	42.13N	95.38W	-59.	.052	
7/ 3/77 2	2247	0:30	410	39.26N	116.49W -	-58	.058		7/ 4/77	0047	2:30	410	42.19N	93.48W	<b>~59</b> •	.037	
7/ 3/77 2	2257	0:40	409	39.68N	114.65W ·	-60	.108		7/ 4/77	0057	2:40	410	42.22N	91.56W	-59.	.035	
7/ 3/77 2	2302	0:45	410	39.88N	113.71W -	-60•	.078		7/ 4/77	0102	2:45	410	42.22N	90.58W	-59.	.035	
7/ 3/77 2	2307	0:50	410	40.07N	112.76W -	-58	.063		7/ 4/77	0107	2:50	410	42.21N	89.60W	-59.	.035	
7/ 3/77 7	2312	0:55	410	40.26N	111.81w -	-60•	.050		7/ 4/77	0112	2:55	410	42.20N	88.63W	-59.	.132	
7/ 3/77 1	2317	1:00	410	40.44N	110.85W	-61.	.024		7/ 4/77	0117	3:00	410	42.18N	87.65W	-58.	.032	
7/ 3/77 7	2327	1:10	410	40.76N	108.93W ·	-61•	.041		7/ 4/77	0137	3:20	410	42.01N	WS8.E8	÷58.	.027	
7/ 3/77 2	2337	1:20	410	41.06N	107.01w -	-59.	.042		7/ 4/77	0147	3:30	410	41.88N	81.91W	-58.	.024	
7/ 3/77 2	2347	1:30	410	41.32N	105.08W ·	-61•	.046		7/ 4/77	0157	3:40	410	41.72N	80.03W	-57.	.032	
7/ 3/77 7	2357	1:40	410	41.55N	103.17w ·	-61.	.068		7/ 4/77	0202	3:45	410	41.63N	79.10W	-57.	.021	
7/ 4/77 (	0002	1:45	410	41.65N	102.20w -	-59•	.052		7/ 4/77	0207	3:50	410	41.53N	78.16W	-58.	.043	
7/ 4/77 (	0007	1:50	410	41.74N	101.22W -	-58	.088		7/ 4/77	0212	3:55	410	41.42N	77.22W	-58.	.030	
7/ 4/77 (	0012	1:55	410	41.83N	100.25W	-59.	.045		7/ 4/77	0217	4:00	410	41.30N	76.29W	-58.	.043	
7/ 4/77	0017	2:00	410	41.90N	99.28W	-59.	•046		7/ 4/77	0223A	4:06	281	40.97N	75.06W	-31.	.049	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .301 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 93
DATA SOURCE: GASP TAPE VL010, FILE 4

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

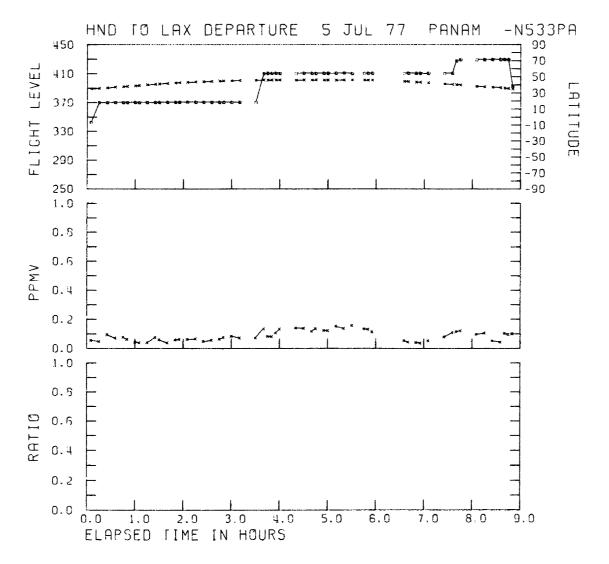
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB		MOZDAZYR	GMT	ETIM FL HŘ:MN	LAT	LONG	TEMP	OZONE ( CABIN	RAT10
	7/ 4/77	1635	0:10	341	42.33N	75.36W	-43.	.036		7/ 4/77	2242	6:1/ 410	64.94N	150.33w	-43.	.061	В
	7/ 4/77	199			43.35N	76.25W		.039		7/ 4/77	2247	6:22 410	64.83N	151.91W	-43.	.092	В
	7/ 4/77	1651	0:26	350	43.88N	76.73W	-43.	.043		7/ 4/77	2257	6:32 410	64.56N	155.06W	-43.	.084	В
	7/ 4/77	1701	0:36	350	44.89N	77.67W	-48.	.152		7/ 4/77	2307	6:42 410	64.22N	158.16W	-42.	.077	В
	7/ 4/77	1711	0:46	350	45.89N	78.64W	-49.	.070		7/ 4/77		6:52 410		161.15W	-44.	.071	В
	7/ 4/77		0:55	351	46.84N	79.60W	-49.	.078		7/ 4/77	2327	7:02 410	63.14N	163.86W	-45.	.085	B
	7/ 4/77				47.32N	80.10W	-49.			7/ 4/77		7:07 410		165.18w	-46.	.063	8
	7/ 4/77				48.39N	81.27W		.052		7/ 4/17		1:15 410		166.48W		.083	В
	7/ 4/77				49.32N	82.33W				7/ 4/77		7:17 410		167.76W		.075	В
	7/ 4/77	_	_		50.24N	83.25W				7/ 4/77		7:22 410		169.00W		.052	В
	7/ 4/77				51.18N	84.18W		.048		7/ 4/77		7:32 410	-	171.38W		.085	В
	7/ 4/77		_		52.10N	85.15W		.040		7/ 5/77		7:42 410		173.69W		.087	8
	7/ 4/77 7/ 4/77				52.57N	85.65W				7/ 5/17		7:57 410		176.96W		.087	B
	7/ 4/77				53.03N 53.91N	86.16W 87.20W				7/ 5/77 7/ 5/77		8:12 410 8:17 410		179.95W		.082	8 B
	7/ 4/77				54.83N	88.32W		.244		7/ 5/77		8:27 410		176.69E		.095 .080	8
	7/ 4/77				55.30N	88.91W				7/ 5/77		8:37 410		174.53£		.080	8
	7/ 4/77				56.26N	90.21W				7/ 5/77		8:47 410		172.44E		.085	В
	7/ 4/77				57.23N	91.64W				7/ 5/77		8:57 410		170.46E		.099	В
	7/ 4/77				58.22N	93.22W				7/ 5/77		9:02 410	-	169.46E		.084	В
	7/ 4/77				58.69N	94.01W				7/ 5/77	0132	9:07 429		168.45E		.081	в
	7/ 4/77				59.01N	95.10W				7/ 5/77		9:12 430		16/.46E		.082	В
Ą	7/ 4/77	1937			59.32N	96.25W				7/ 5/77		9:17 429	52.77N	166.49E		.077	В
97	7/ 4/77	1942	3:17	390	59.62N	97.42W	-45.	.132	В	7/ 5/77		9:27 429	52.04N	164.6UE	-51.	.086	8
	7/ 4/77	1952	3:27	390	60.20N	99.84W	-45.	• 085	В	7/ 5/77	0202	9:37 429	51.27N	162.77E	-53.	.082	8
	7/ 4/77	2002	3:37	390	60.74N	102.38W	-45.	.102	8	7/ 5/77	0212	9:4/ 430	50.48N	161.02E	-56.	.071	8
	7/ 4/77	2012	3:47	390	61.23N	105.01W	-46.	.106	В	7/ 5/77	0555	9:57 429	49.66N	159.32E	-62.	.093	В
	7/ 4/77	2022	3:57	390	61.67N	107.71W	-47.	.063	В	7/ 5/77	0227	10:02 430	49.24N	158.50E	-62.	.101	В
	7/ 4/77		4:02	390	61.88N	109.08W	-47.	.094	В	7/ 5/77		10:07 430		157.69E		.121	В
	7/ 4/77				62.06N	110.48W		.088	В	7/ 5/77		10:12 430		156.90E		.087	8
	7/ 4/77				62.21N	111.88W	-	.099	В	7/ 5/77		10:17 429		156.12E		.079	В
	7/ 4/77				62.36N	113.30W		.080	8	7/ 5/77		10:27 429		154.58E		.095	8
	7/ 4/77				62.90N	115.99W		.100	8	7/ 5/77		10:37 430		153.13E		.088	В
	7/ 4/77				63.59N	118.62W		.079	В	7/ 5/77		10:47 430		151.72E		.081	8 B
	7/ 4/77				64.24N	121.40₩		.100	В В	7/ 5/77		10:57 430 11:02 429		150.36E		.067	8
	7/ 4/77				64.83N	124.31₩				7/ 5/77 7/ 5/77	-	11:02 429	-	149.69E		.040	8
	7/ 4/77		_	_	65.11N	125.81W		.087	В В	7/ 5/77		11:12 429	-	149.01E 148.34E		.062 .047	8
	7/ 4/77				65.34N	129.02W		•083		7/ 5/17		11:17 429				.061	2
	7/ 4/77				65.41N	132,30₩		.092	8 8	7/ 5/77		11:27 430		147.68E 146.39E		.093	ь
	7/ 4/77				65.41N	135.58₩		.099		7/ 5/17	-	11:3/ 429		145.15E		.061	
	7/ 4/77				65.33N	138.91W		.099	8 8	7/ 5/11		11:52 430		143.15E		•114	
	7/ 4/77 7/ 4/77				65.27N	140.53W		.090 .082	B B	7/ 5/17		11:57 430	-	142.70E		.066	
	7/ 4/77				65.23N 65.17N	142.15W		.087	B	7/ 5/77		12:02 429		142.10E		.063	
	7/ 4/77				65.11N	147.09W		.089	В			12:07 429		141.51E		.061	
	7/ 4/77				65.03N	148.70W			В			12:12 383				.063	
	1/ 7///	6631	0 • 7 5	700	00000	TADOLAM	-430		U	1, 3,11	3 , 3 ,				•		

MAXIMUM VALUES: AMBIENT OZONE=##### CABIN OZONE= .301 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 93
DATA SOURCE: GASP TAPE VL010, FILE 4

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

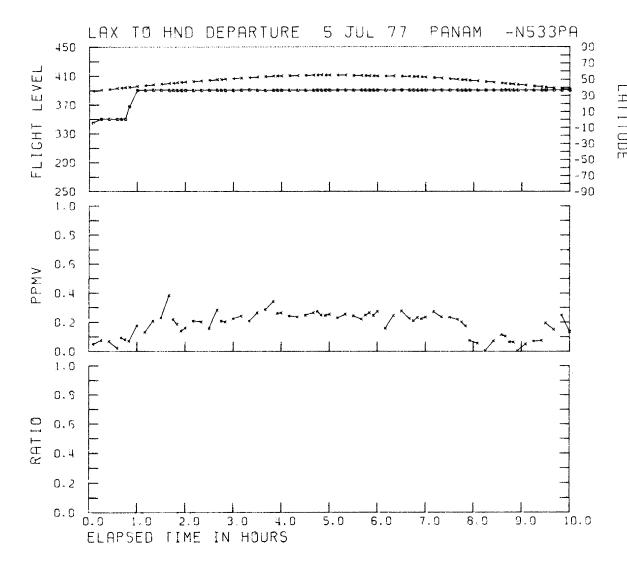
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(₽PMV) RATIO HR:MN (C) CABIN AMB. HR:MN (C) CABIN AMB.

7/ 5/77 0443A 12:18 202 36.32N 140.34E -11. .063



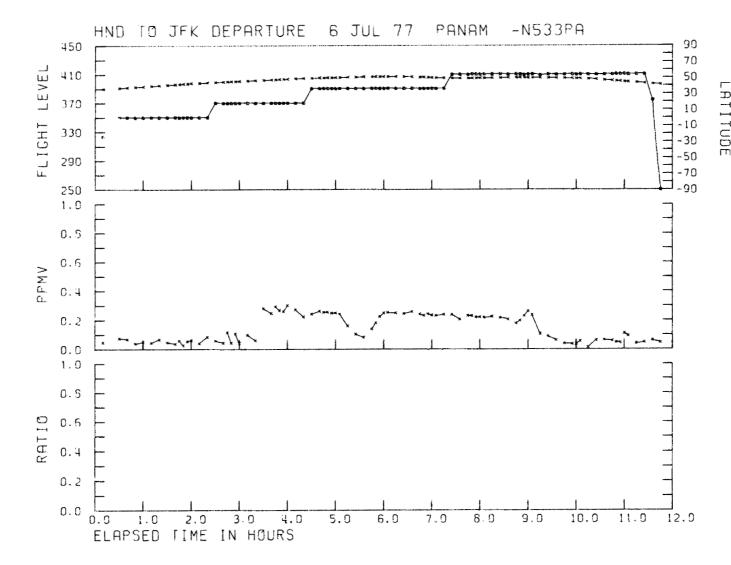
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .158 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 56
DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

MOZ	/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV)	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO
7,	/ 5/77	0820A	0:09	343	35.47N	142.75E	-44.	.056		7/ 5/77	1231	4:20	410	46.03N	170.69W	-61.	.141	В
7,	/ 5/77	0826	0:15	370	35.95N	143.30E	-50.	.048		7/ 5/77	1241	4:30	411	46.05N	168.53W	-60.	.138	В
7,	/ 5/77	0836	0:25	370	36.69N	144.80E	-50 •	.095		7/ 5/77	1251	4:40	410	46.10N	166.38W	-61.	.117	В
7.	5/77	0846	0:35	370	37.37N	146.24E	-51•	.072		7/ 5/77	1256	4:45	410	46.11N	165.33W	-62.	.136	В
7,	5/17	0856	0:45	370	38.06N	147.79E	-52.	.078		1/ 5/77	1306	4:55	410	46.09N	163.13W	-6l·	.124	В
7,	/ 5/77	0901	0:50	370	38.41N	148.60E	-53•	.063		7/ 5/77	1311	5:00	410	46.07N	162.03W	-59.	.122	В
7.	/ 5/77	0911	1:00	370	39.10N	150.22E	-53•	.045		7/ 5/77	1321	2:10	411	46.00N	159.87W	-59.	•153	В
7.	/ 5/77	0916	1:05	370	39.49N	151.06E	-53•	.040		7/ 5/77	1331	5:20	411	46.08N	157.64W	-56.	.137	В
7,	/ 5/77	0926	1:15	370	40.24N	152.76E	-53•	.041		7/ 5/77	1341	5:30	410	46.11N	155.46W	-57.	.158	8
7.	/ 5/17	0936	1:25	370	40.96N	154.48E	-54 •	.076		7/ 5/77	1356	5:45	411	46.07N	152.20W	-58.	.134	в
7.	/ 5/77	0941	1:30	370	41.30N	155.33E	-55•	.061		7/ 5/77	1401	5:50	411	46.04N	151.12W	-58.	.131	В
7,	/ 5/77	0951	1:40	370	41.94N	157.01E	-55•	.039		7/ 5/77	1406	5:55	410	46.00N	150.08W	-62.	.114	В
7.	/ 5/77	1001	1:50	370	42.58N	158.78E	<b>-55•</b>	.060		7/ 5/77	1446	6:35	410	44.47N	141.96W	-69.	.054	В
7.	/ 5/77	1006	1:55	370	42.88N	159.65E	-56•	.063		7/ 5/77	1451	6:40	411	44.24N	140.99W	-69.	.044	8
7.	/ 5/77	1016	2:05	371	43.35N	161.46E	-56•	.064		7/ 5/77	1501	6:50	410	43.69N	139.10W	-69.	.041	8
7.	/ 5/17	1026	2:15	371	43.78N	163.33E	-55.	.066		7/ 5/77	1506	6:55	410	43.37N	138.18W	-69.	.037	В
7,	/ 5/77	1036	2:25	371	44.16N	165.19E	-55.	.050		7/ 5/77	1516	7:05	410	42.72N	136.40W	-68.	•053	8
7.	/ 5/77	1046	2:35	370	44.52N	167.08E	-56.	.057		7/ 5/77	1536	1:25	410	41.34N	132.99W	-65.	.080	В
7.	/ 5/17	1056	2:45	370	44.86N	169.11E	-57.	.065		7/ 5/17	1546	1:35	411	40.62N	131.34W	-64.	.109	8
7,	/ 5/77	1101	2:50	370	45.01N	170.08E	-59.	.076		7/ 5/77	1551	7:40	428	40.25N	130.54W	-62.	.116	8
7.	/ 5/77	1111	3:00	370	45.30N	172.18E	-59.	.084		7/ 5/77	1556	7:45	429	39.88N	129.76W	-60.	.121	В
7.	/ 5/77	1121	3:10	370	45.54N	174.30E	-59.	.072		7/ 5/77	1616	8:05	429	38.31N	126.70W	-62.	•098	В
<u>?</u> 7.	/ 5/77	1141	3:30	370	45.91N	178.63E	-58•	.073		7/ 5/77	1626	8:15	429	37,69N	125.13w	-59.	.106	8
<u> </u>	/ 5/77	1151	3:40	410	46.03N	179.20W	-61.	.135	В	7/ 5/77	1636	8:25	430	37.31N	123.38W	-58.	•053	В
7.	/ 5/77	1156	3:45	410	46.07N	178.11W	-62.	.083	8	7/ 5/77	1646	8:35	430	36.59N	121.85W	-57.	.042	В
7.	/ 5/77	1201	3:50	410	46.09N	177.01W	-61.	•081	В	7/ 5/77	1651	8:40	429	36.12N	121.23W	-56.	.103	8
7.	/ 5/77	1206	3:55	411	46.10N	175.96W	-60•	.107	В	7/ 5/77	1656	8:45	429	35.66N	120.60W	-57.	.096	
7.	/ 5/77	1211	4:00	410	46.11N	174.86W	-60•	.134	В	7/ 5/77	1701	<b>8</b> ₹50	392	35.20N	119.99W	-57.	.101	



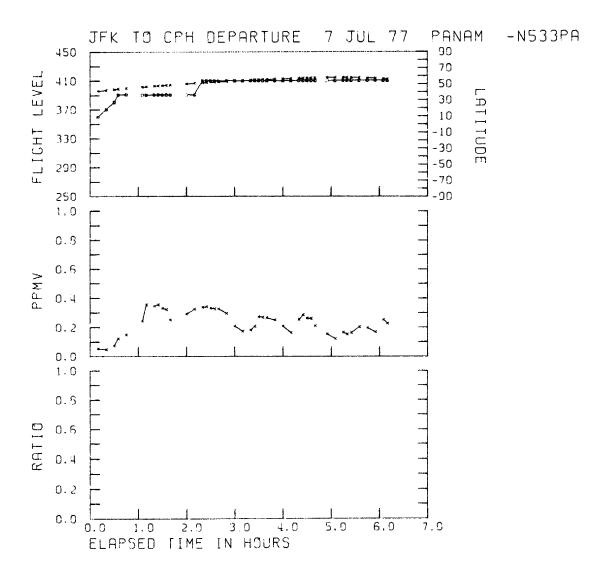
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .383 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 76 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/Y	R GMT	FLIW HK:WW	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO
7/ 5/77	2029	0:05	345	35.51N	120.19W	-51.	.050		7/ 6/7	7 0134	5:10	391	55.16N	168.18w	-48.	.230	
7/ 5/77	2039			36.66N	121.03W		.076		7/ 6/7				55.03N	170.49W		.255	
7/ 5/77	2049	0:25	350	37.81N	121.91W	-53•	.069		7/ 6/7	7 0154	5:30	391	54.87N	172.80W		.245	
7/ 5/77	2059	0:35	351	38.93N	122.79W	-54.	.024		7/ 6/7	7 0204	5:40	391	54.66N	175.10W	-46.	.221	
7/ 5/77	2104	0:40	350	39.47N	123.23W	-55.	.094		7/ 6/7	7 0209	5:45	391	54.54N	176.23W	-46.	.249	
7/ 5/77	2109	0:45	351	40.01N	123.68W	-54.	.081		7/ 6/7	7 0214	5:50	391	54.41N	177.37W	-46.	.264	
7/ 5/77	2114	v:50	368	40.56N	124.11W	<del>-</del> 58•	.071		7/ 6/7	7 0219	5:55	391	54.27N	178.50W	-46.	.247	
7/ 5/77	2124	1:00	391	41.62N	124.96W	-63•	.176		7/ 6/7	7 0224	6:00	391	54.11N	179.63W	-46.	.273	
7/ 5/77		1:10	391	42.59N	125.88W	-62.	.133		7/ 6/7	7 0234	6:10	391	54.03N	178.11E	-47.	.158	
7/ 5/77		1:20	391	43.49N	126.90W	<b>-61</b> •	.208		7/ 6/7	7 0244	6:20	391	53.96N	175.82E	-47.	.246	
7/ 5/77		1:30	391	44.37N	127.94W	<del>-</del> 59•	.230		7/ 6/7			391	53.84N	173.55E	-48.	.277	
7/ 5/77		1:40	391	45.23N	129.01W	-59.	.383		7/ 6/7	7 0304	6:40	391	53.68N	171.24E	-48.	.226	
7/ 5/77		1:45	391	45.66N	129.55W	~59.	.219		7/ 6/1	7 0309	6:45	391	53.58N	170.11E	-48.		
7/ 5/77	2214	1:50	391	46.08N	130.13W	-60.	.186		7/ 6/7	7 0314	6:50	391	53.30N	169.09E	-49.	.233	
7/ 5/77		1:55	391	46.45N	130.76W	-59.	.141		7/ 6/7	7 0319	6:55	391	53.00N	168.08E	-48.	.225	
7/ 5/77				46.83N	131.42W	<b>~60</b> •	.161		7/ 6/7	7 0324	7:00	391	52.69N	167.10E	-48.	.235	
7/ 5/77		2:10	391	47.57N	132.76W	-59•	.209		7/ 6/7	7 0334	Ź : 10	391	52.04N	165.17E	-49.	.272	
7/ 5/77		2:20	391	48.31N	134.16W	-61.	.202		7/ 6/7	7 0344	7:20	391	51.37N	16J.32E	-50.	.237	
7/ 5/77		30:غ	391	49.02N	135.59W	-61.	.158		7/ 6/7	7 0354	7:30	391	50.68N	161.54E	-51.	•235	
7/ 5/77		2:40	391	49.71N	137.05W	-61.	.282		7/ 6/7	7 0404	7:40	391	49.96N	159.85E	-51.	.218	
7/ 5/77				50.06N	137.80W	-62•	.209		7/ 6/7			391	49.56N	159.08E	-54.	.201	
7/ 5/17		2:51	391	50.41N	138.61W	<del>-</del> 62•	.202		7/ 6/7	7 0414	7:50	391	49.17N	158.32E	-57.	.174	
₹ 7/ 5/17				50.99N	139.97W		• 225		7/ 6/7	7 0419			48.79N	157.60E	-60.	.075	
<b>る 7/5/77</b>				51.72N	142.04W		.242		7/ 6/7				48.02N	156.22E	-60.	•056	
7/ 5/17				52.31N	143.86W		.209		7/ 6/7		8:15	391	47.22N	154.85E	-60.	.008	
7/ 5/77				52.89N	145.78W	<del>-</del> 51•	• 264		7/ 6/7	7 0449			46.37N	153.48E	-58.	.071	
7/ 6/17				53.47N	147.88W		.∠86		7/ 6/7		8:35	391	45.48N	152.13E	-58.	.115	
7/ 6/77				54.00N	149.99W		.342		7/ 6/7		8:40	391	45.03N	151.47E	-59.	.104	
7/ 6/77				54.16N	151.13W		.261		7/ 6/7				44.58N	150.82E	-59.	•065	
7/ 6/77				54.31N	152.28W	-52•	.264		7/ 6/7		8:50	391	44.13N	150.18E	-56.	.063	
7/ 6/77				54.57N	154.61W		.243		7/ 6/7				43.67N	149.54E	-56.	•006	
7/ 6/77		4:20	391	54.78N	156.88W	-53•	.236		7/ 6/7	7 0529			42.79N	148.31E	-55.	.050	
7/ 6/77				54.94N	159.11W	-51.	.249		7/ 6/7	7 0539			41.87N	147.09E	-54.	.071	
7/ 6/77				55.14N	161.35W		•264		7/ 6/7				40.94N	145.91E	-55.	.074	
7/ 6/77				55.29N	162.46W		.274		7/ 6/7				40.44N	145.29E	-54.	.195	
7/ 6/77	-			55.32N	163.59W		.249		7/ 6/7			391	39.50N	144.10E	-53.	.150	
7/ 6/77				55.28N	164.72W		.248		7/ 6/1	7 0615	9:51	391	38.53N	142.92E	-55.	.248	
7/ 6/77	0124	5:00	391	55.25N	165.87W	-49•	•255		7/ 6/7	7 0625	10:01	391	37.59N	141.65E	-58.	.134	



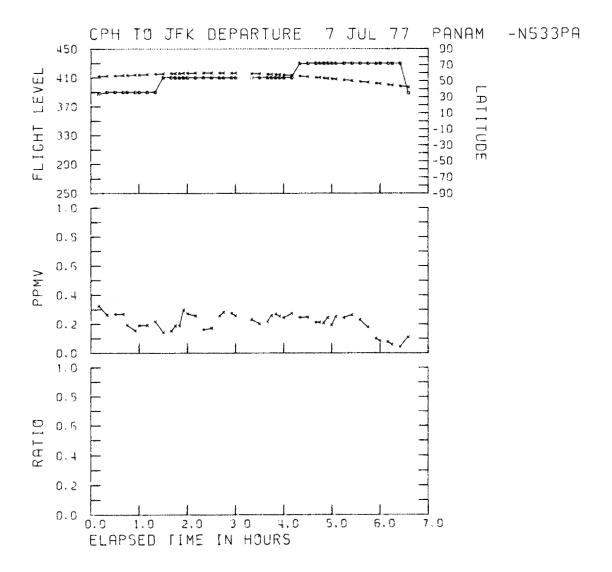
MAXIMUM VALUES: AMBIENT OZUNE=\*\*\*\*\* CABIN OZONE= .302 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 89 DATA SOURCE: GASP TAPE VL010, FILE 4

DATA SOUP	(СС- 6	MSF INF	_ •	_0109 11													
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MOZNAZYR	GMT	HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE (	RATIO
			224	24 070	142 205	- 6 1	.047		7/ 6/77	1549	6:00	390	51.22N	146.85W	-52.	.249	
7/ 6/77				36.07N	142.30E 145.31E		.076		7/ 6/77		- ,		51.23N	145.67W	-48.	.253	
7/ 6/77				37.29N	145.31C		.070		7/ 6/17	1604	6:15	390	51.23N	143.36₩	-46.	.249	
7/ 6/77		-		37.89N	148.47E		.041		7/ 6/77		6:25	390	51.18N	141.06W	-40.	.245	
7/ 6/17				38.47N 39.03N	150.97E		.051		7/ 6/77		6:35	390	51.01N	138.78W	-49.	.259	
7/ 6/77		-		39.73N	151.58E		.045		7/ 6/77		6:45	390	50.69N	136.55W	-53.	.242	
7/ 6/17 7/ 6/17				40.40N	153.13E		.069		7/ 6/77	1639	6:50	390	50.52N	135.45W	-54.	.232	
7/ 6/17				41.06N	154.71E		.048		7/ 6/77	1644	6:55	390	50.34N	134.36W	-53.	.243	
7/ 6/77				41.70N	156.34E		.038		7/ 6/77		7:00	390		133.26W			
7/ 6/77		-		42.02N	157.19E		.061		7/ 6/17	1654				132.17W			
7/ 6/17				42.34N	158.07E				7/ 6/77	1704			-	130.01W			
7/ 6/77		-		42.67N	158.97£				7/ 6/77	1714			49.32N	127.83W			
7/ 6/17				42.99N	159.90E				7/ 6/77				49.14N	125.63W			
7/ 6/77				43.49N	161.89E				7/ 6/77	1734			49.09N	124.42W			
7/ 6/17				43.95N	163.93E				7/ 6/17	1739			49.15N	122.33W			
7/ 6/77				44.38N	166.04E				7/ 6/77				49.25N	121.24W			
7/ 6/77				44.78N	168.27E				7/ 6/77				49.33N	120.15W			
7/ 6/17				44.96N	169.37E				7/ 6/77				49.41N	119.04W			
7/ 6/77				45.16N	170.41E	-55.	.043		7/ 6/77			4-	49.53N	116.80W			
7/ 6/17				45.41N	171.44E	-54.	.107		7/ 6/77				49.60N	114.65W			
7/ 6/17				45.66N	172.49E	-54.	.043		7/ 6/77	1824			49.75N	112.41W			
7/ 6/77				46.13N	174.64E	-55.	.099		7/ 6/77				49.81N	110.15W			
\$ 7/ 6/77	1309	3:20	370	4656N	176.86E	-55•	.061		7/ 6/17				49.82N	109.04W			
g 7/ 6/77				46.95N	179.08E	-52•	.281		7/ 6/77				49.82N	107.89₩			
7/ 6/77	1329	3:40	370	47.40N	. 178.78W	-49.			7/ 6/77				49.81N	106.73W			
7/ 6/77	1334			47.65N		-49•	.294		7/ 6/77	1854			49.79N	105.58W 103.23W			
7/ 6/77	1339	3:50	370	47.90N	176.61W	-48•			7/ 6/77				49.71N 49.58N	100.91W			
7/ 6/77	1344	3:55	370	46.13N	175.52W		41.4.1		7/ 6/77				49.41N	98.57W			
7/ 6/77	1349	4:00	370	48.35N	174.41W				7/ 6/77				49.19N	96.28W			
7/ 6/17	1359			48.76N	172.18W				7/ 6/77				48.93N	94.04W			
7/ 6/77	1409			49.12N	169.92W				7/ 6/77				48.79N	92.92W			
7/ 6/17	1419		15	49.43N	167.62W				7/ 6/77				48.63N	91.80w			
7/ 6/77	1429			49.70N					7/ 6/77				48.28N	89.60W			
7/ 6/77				49.82N	164.17W				7/ 6/77		10.15	410	47.63N	87.59W			
7/ 6/77	1439	4:50	390	49.92N					7/ 6/77				46.92N	85.63W			
7/ 6/77				50.01N	161.85W		in an an		7/ 6/17 7/ 6/17				46.14N	83.77W			
7/ 6/77		-		50.10N			13. 43		7/ 6/77				45.71N	82.91			
7/ 6/77	1454	5:05	390	50.19N	159.57						_		45.27N	86.08			
7/ 6/77		-		50.49N					7/ 6/77				44.83N	81.26			
7/ 6/77	1514			50.75N	154.92W				7/ 6/77				44.43N	80.40			
7/ 6/77				50.95N					7/ 6/77				43.75N	78.64			
7/ 6/77	1534			51.10N					7/ 6/77		11112	410	42.94N	77.00			
7/ 6/17	1539	5:50	390	51.16N					7/ 6/17				42.07N	75.33v			
7/ 6/77	1544	5:55	390	51.19N	147.97	-52	. 225		7/ 6/77				41.25N	73.33V			
									7/ 6/17	C134	11:45	203	41.50M	, 5 , 1 ,			



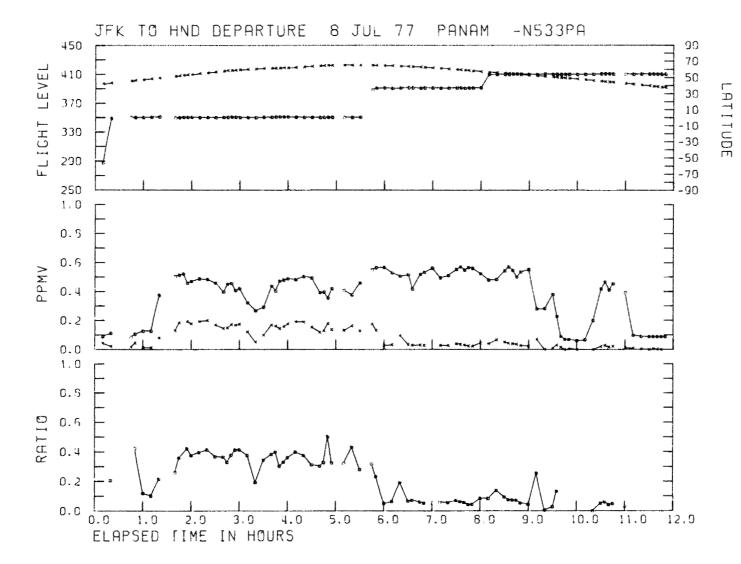
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .356 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 45 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
7/ 7/77 0332	0:10 360 41.42N	71.78W -47053	7/ 7/77 0644 3:22 410 54.88N	36.18W -62183
7/ 7/77 0342	0:20 370 42.45N	70.64W -49047	7/ 7/77 0649 3:27 410 55.13N	34.97w -58207
7/ 7/77 0352	0:30 380 43.45N	69.48W -51075	7/ 7/77 0654 3:32 410 55.36N	33.77W -58272
7/ 7/77 0359	0:37 391 44.12N	68.68W -51124	7/ 7/77 0659 3:3/ 410 55.58N	32.55W ~57268
7/ 7/77 0409	0:47 391 45.06N	67.46W -46151	7/ 7/77 0704 3:42 410 55.79N	31.30W ~55266
7/ 7/77 0429	1:07 391 46.59N	64.07W -43246	7/ 7/77 0714 3:52 410 56.17N	28.74w -51250
7/ 7/77 0434	1:12 391 46.96N	63.18W -45356	7/ 7/77 0724 4:02 410 56.48N	26.18W ~51209
7/ 7/77 0444	1:22 391 47.68N	61.37W -42346	7/ 7/77 0734 4:12 410 56.74N	23.59w -48164
7/ 7/77 0449	1:27 391 48.02N	60.48W -42355	7/ 7/77 0744 4:22 410 56.94N	20.98W -47255
7/ 7/77 0454	1:32 391 48.36N	59.55W -43332	7/ 7/77 0749 4:27 410 57.05N	19.68W -46286
7/ 7/77 0459	1:37 391 48.69N	58.60W -43323	7/ 7/77 0754 4:32 410 57.22N	18.41W -46263
7/ 7/77 0504	1:42 391 49.02N	57.64W -43252	7/ 7/77 0759 4:37 410 57.38N	1/.13W -47260
7/ 7/77 0524	2:02 391 50.50N	53.86W -41293	7/ 7/77 0804 4:42 410 57.52N	15.82W -47211
7/ 7/77 0534	2:12 391 51.27N	51.96W -41326	7/ 7/77 0819 4:57 410 57.87N	11.92w ~51155
7/ 7/77 0544	2:22 410 51.97N	50.07W -44338	7/ 7/77 0829 5:07 410 58.12N	9.28W -52122
7/ 7/77 0549	2:27 410 52.27N	48.88W -46343	7/ 7/77 0839 5:17 410 58.25N	6.67W -54166
7/ 7/77 0554	2:32 410 52.53N	47.77W -46332	7/ 7/77 0844 5:22 411 58.13N	5.60W ~55153
7/ 7/77 0559	2:37 410 52.78N	46.65W -48328	7/ 7/77 0849 5:27 410 57.96N	4.34W -55164
7/ 7/77. 0604	2:42 410 53.03N	45.48W -51328	7/ 7/77 0859 5:37 410 57.64N	1.87w -57202
7/ 7/77 0614	2:52 410 53.46N	43.24W -56296	7/ 7/77 0909 5:47 410 57.25N	•57£ -55• •197
7/ 7/77 0624	3:02 410 53.86N	40.91W -59209	7/ 7/77 0919 5:5/ 410 56.81N	2.95E -52168
7/ 7/77 0634	3:12 410 54.35N	38.54W -59173	7/ 7/77 0929 6:0/ 410 56.33N	5.25E -50252
<u>۸</u> ن			7/ 7/77 0934 6:12 410 56.07N	6.38E -51227



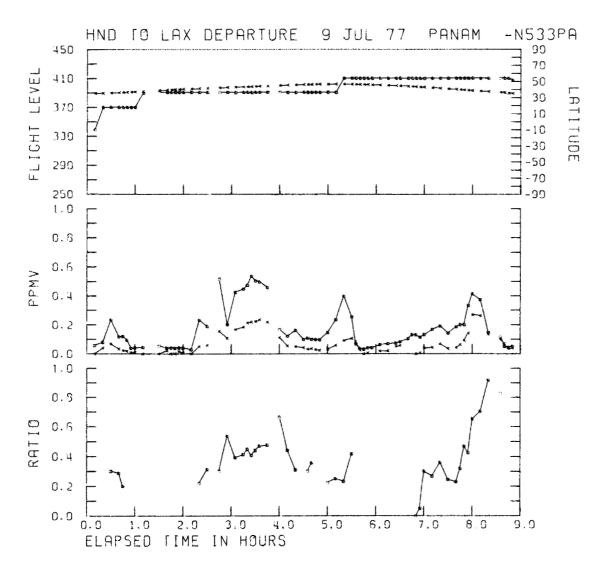
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .325 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 48 DATA SOURCE: GASP TAPE VL010, FILE 4

M0/	DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) RATI CABIN AMB.	IO MO/DA	/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (DPMV) CABIN AMB.	
7/	7/77	1158	0:10	387	55.90N	9.19E	-50•	.325	7/ 7	/77	1528	3:40	410	58.52N	42.97W	-57.	.218	
7/	7/77	1208	0:20	390	56.26N	6.79E	<del>-</del> 53•	•263	7/ 7	177	1533	3:45	410	58.30N	44.13W	-52.	•258	
7/	7/77	1218	0:30	390	56.61N	4.39E	-53.	.268	7/ 7	/77	1538	3:50	410	58.07N	45.29W	-50.	•270	
7/	7/77	1228	0:40	390	57.05N	2.06E	-58.	.268	7/ 7	/77	1543	3:55	410	57.83N	46.46W	-50.	•253	
7/	7/77	1233	0:45	390	57.25N	.88E	-58.	•193	7/ 7	/77	1548	4:00	410	57.56N	47.65W	-49.	.245	
7/	7/77	1243	0:55	390	57.63N	1.49W	-58.	.155	7/7	177	1558	4:10	410	57.00N	50.00W	-46.	.273	
7/	7/77	1248	1:00	390	57.86N	2.67W	-56.	•191	7/ 7	/77	1608	4:20	430	56.17N	51.99W	-44.	-246	
7/	7/77	1258	1:10	390	58.28N	5.06W	-56.	•192	7/ 7	/77	1618	4:30	430	55.31N	53.88W	-43.	.247	
7/	7/77	1308	1:20	390	58.67N	7.56W	-55.	.218	7/7	/77	1628	4:40	430	54.42N	55.70W	-42.	.213	
7/	7/77	1318	1:30	410	59.02N	10.13W	-51.	.142	7/ 7	/77	1633	4:45	430	53.95N	56.61W	-43.	.212	
7/	7/77	1328	1:40	410	59.36N	12.74W	-48.	.153	7/ 7	177	1638	4:50	430	53.46N	57.42W	-43.	.208	
7/	7/77	1333	1:45	410	59.51N	14.05W	-47.	.187	7/ 7	/77	1643	4:55	430	53.01N	58.30W	-43.	.244	
7/	7/77	1338	1:50	410	59.64N	15.36W	-46.	.189	7/7	177	1648	5:00	430	52.55N	59.17w	-43.	.194	
7/	7/77	1343	1:55	410	59.77N	16.68W	-46.	.298	7/ 7	/77	1653	5:05	430	52.09N	60.03W	-43.	•251	
7/	7/77	1348	2:00	410	59.87N	18.02W	-46.	.272	7/7	/77	1704	5:16	430	51.05N	61.81w	-46.	.244	
7/	7/77	1358	2:10	410	60.03N	20.69W	-47.	•256	7/ 7	/77	1713	5:25	430	50.08N	63.39W	-47.	.263	
7/	7/77	1408	2:20	410	60.09N	23.35W	-48.	•163	7/ 7	177	1724	5:36	430	49.09N	64.90W	-46.	.230	
7/	7/77	1418	2:30	410	60.09N	25.99W	-48.	.172	7/ 7	/77	1733	5:45	430	48.06N	66.36W	-48.	.178	
7/	7/77	1428	2:40	410	60.04N	28.63W	-49.	• 257	7/ 7	177	1744	5:56	430	46.88N	67.55W	-51.	.101	
7/	7/77	1433	2:45	410	60.00N	29.93W	-51.	.283	7/ 7	177	1749	6:01	430	46.29N	66.09W	-52.	.082	
7/	7/77	1443	2:55	410	59.83N	32.45W	<b>-55</b> •	.275	7/ 7	177	1758	6:10	430	45.14N	69.12W	-56.	.077	
	7/77	1448	3:00	410	59.72N	33.67W	-56.	.257	7/ 7	/77	1804	0:16	430	44.54N	69.63W	-57.	•059	
2 7/	7/77	1508	3:20	410	59.21N	38.45W	-58.	.232	7/ 7	/77	1813	6:25	430	43.38N	70.60W	-61.	• 0 4 4	
	7/77	1518	3:30	410	58.90N	40.72W	-58•	.202	7/ 7	/77	1824	6:36	389	42.20N	71.53w	-57.	-110	



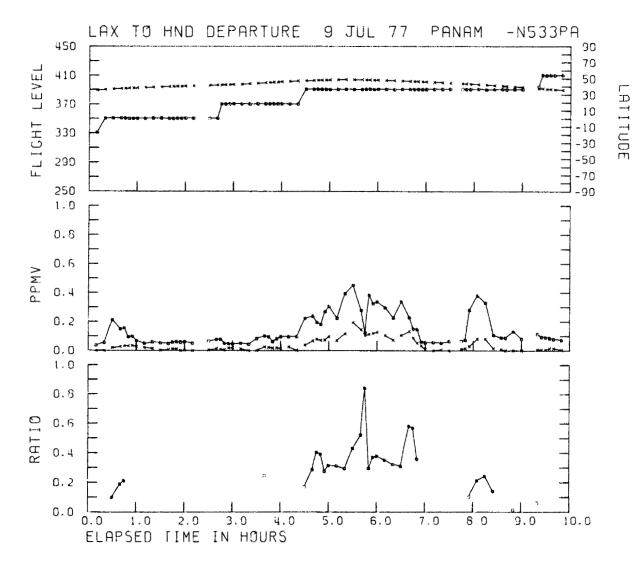
MAXIMUM VALUES: AMBIENT OZONE= .571 CABIN OZONE= .200 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .50 TOTAL OBS IN CABIN: 82 DATA SOURCE: GASP TAPE VL010, FILE 4

																				* *
1	40/D	A/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE)		RATIO	MOZDAZYR	GMT	ETIM FI HR:MN	LAT	LONG	TEMP	OZONE (	PMV) AMB.	RATIO
				rik • rin				()	CADIN	- PID				7 11 2 7 11 4			(0)	CHDIN	AMD.	
	7/	8/77	1646	0:10	288	42.11N	75.22W	-28.	.043	•089		7/ 8/77	2306	6:30 39	63.66N	158.96W	-47.	.034	-516	.07B
			1656			43.17N	76.13W		.023	•112	.21	7/ 8/77			63.42N	160.42W		.030	•417	.07B
			1721		_	45.97N	78.63W		.020	•086		7/ 8/77			62.90N	163.29W		.031	•519	.06B
			1726	-		46.54N	79.12W		.045	•106	•42	7/ 8/77		and the second second	62.61N	164.69W		.028	•534	•05B
			1736			47.57N	80.22W		.015	•127 •127	•12 •10	7/ 8/77 7/ 8/77			L 62.00N	16/.41w 170.06w		0.20	•562	.06B
			1746 1756	_		48.49N 49.55N	82.38W		.080	• 121	•10 •21	7/ 8/17	_		60.55N	172.44W		.029 .028	•495 •511	.00B
			1816			51.72N	84.60W		.131	•504	•26	7/ 9/77			1 59.74N	174.64W		.039	•554	.07B
			1821			52.28N	85.21W		.184	•513		7/ 9/77			1 59.33N	175.71W		.035	•570	068
	7/	8/77	1826	1:50	350	52.82N	85.83W	-47.	•	•521		7/ 9/77	0016	7:40 39	1 58.90N	176.76W	-47.	.031	•550	.068
			1831	1:55	350	53.36N	86.46W	-49.	.193	• 458	•42	7/ 9/77		7:45 39	1 58.47N	177.78W	-40.	.024	•566	.04B
			1836			53.89N	87.10W		.177	•470		7/ 9/77			1 58.03N	178.76W		.024	•561	.04B
			1846			54.94N	88.43W		.193	•487		7/ 9/77			1 57.23N	179.23E		• 044	•524	.088
			1856 1906			55.98N 57.01N	89.84W		.200	•483 •459		7/ 9/77 7/ 9/77			0 56.59N 0 55.91N	177.11E		•040	•480	.088
			1916			24.05W	91.33W 92.90W		.145	•457		7/ 9/11			0 55.19N	173.02E		.066 .051	•484 •544	.14B .09B
			1921	_		58.53N	93.75W		.149	•451		7/ 9/77		the second second	54.82N	172.03E		.043	•571	088
			1926			58.90N	94.73W		.172	•456		7/ 9/77			0 54.45N	171.10E		.040	•548	.078
	7/	8/77	1931	2:55	351	59.21N	95.84W	-55•	.168	•407	•41	7/ 9/77	0121	8:45 41	54.07N	170.18E	-49.	.036	•500	.07B
			1936	3:00	350	59.51N	96.99W	<del>-5</del> 6•	.174	•420	•41	7/ 9/77		8:50 41	) 53.74N	169.22E	-50.	.028	•536	.058
			1946			60.08N	99.34W		.121	•322		7/ 9/77			) 53.07N	16/.30E		.024	•553	.04B
>			1956	_		60.61N	101.75W		.051	• 267		7/ 9/77			52.35N	165.39E		.071	•279	.25B
32			2006			61.10N	104.26₩		.100	•291		7/ 9/77 7/ 9/77		and the second second	) 51.64N	163.63E		.001	-282	.00B
			2021			61.53N 61.73N	106.80W		.167	•436 •404		7/ 9/77			50.88N 50.48N	161.90E 161.02E		.010 .030	•379 •228	.03B .13B
			2026	-		61.91N	109.33W		.143	•472		7/ 9/77			50.08N	160.16E		.016	•090	В
			2031			62.07N	110.64W	_	.158	•479		7/ 9/77		W 100 11 15	49.66N	159.32E		.000	.070	Ŗ
	7/	8/77	2036			62.23N	111.99W		.176	•488	•36	7/ 9/77	0226	9:50 41	49.23N	158.48E		.006	•068	8
			2046	4:10	351	62.52N	114.69W		.192	•482	-40	7/ 9/77	0236	10:00 41		150.84E	-64.	.000	•061	В
			2056			63.24N	117.20W		.189	•503		7/ 9/77		10:10 41	-	155.24E			• 066	
			2106			63.90N	119.87W		.154	•493		7/ 9/77		10:20 41		153.71E		.000	•199	.00B
			2116		_	64.52N	122.69₩		.119	•393		7/ 9/77		10:30 41	-	152.28E		.021	•416	.058
			2121			64.80N 65.08N	124.15w 125.63w		.130 .178	•396 •355		7/ 9/17 7/ 9/11	_	10:35 41 10:40 41		151.61E 150.95E		.028 .017	•465 •410	.06B .04B
			2131			65.28N	127.18W		.137	•419	•33	7/ 9/77		10:45 41	-	150.30E		022	•453	.05B
			2146			65.41N	132.29W		.132	•407	•32	7/ 9/77	_	11:00 41		148.31£		.012	•393	038
			2156			65.40N	135.88W	,	.162	•377	•43	7/ 9/77		11:10 41		146.99E		.009	.096	В
			2206			65.32N	139.41W		.128	•458		7/ 9/77	0356	11:20 41	40.78N	145.65E	-56.	.005	•089	В
			2221			65.10N	144.49W		.175	•551	•32	7/ 9/77		41 0 فِ: لِلْ		144.36E		.000	•088	В
			5556			65.01N	146.20W		.131	•565	•23B	7/ 9/77	_	11:35 41		143.72E		.006	•088	В
			2236			64.77N	149.53W		.028	•567	• 05B	7/ 9/77		11:40 41		143.09E		.001	•088	В
			2246			64.47N	152.80W		.033	•529	•06B	7/ 9/77		11:45 41		142.46E		.000	-088	В
	7/	8/77	2256	6:20	391	64.09N	155.95W	-48•	.096	•506	•19B	7/ 9/77	0426	11:50 41	31.6/N	141.80E	-50.		•088	



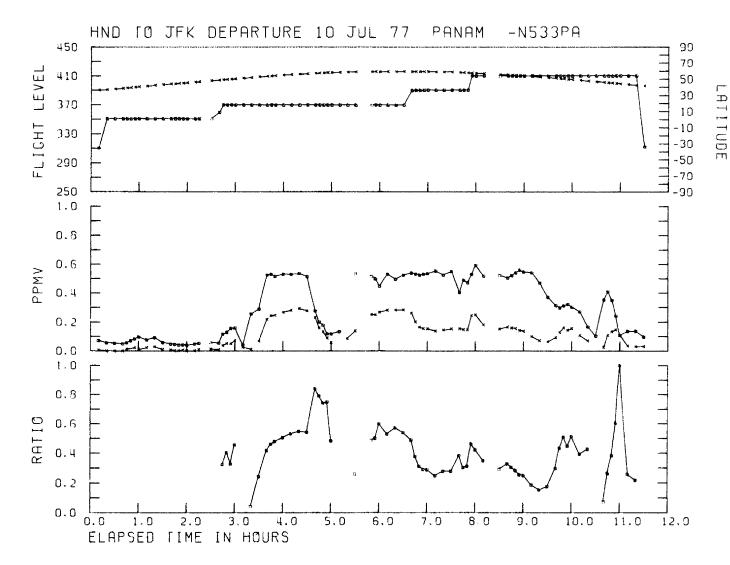
MAXIMUM VALUES: AMBIENT OZONE= .536 CABIN OZONE= .270 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .92 TOTAL OBS IN CABIN: 64 DATA SOURCE: GASP TAPE VLOID, FILE 4

MO/DA/	YR.	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN OZONE (		RATIO	MO/DA/YR	GMT	ETIM HŘÍMN	FL	LAT	LONG		OZONE ( CABIN		RATIO
7/ 9/					35.41N	142.34E		.000	059		7/ 9/77		also and W		46.73N	164.45W		.029	•099	
7/ 9/					35.76N	143.88E		.041	•080		7/ 9/77				46.83N	163.40W		.023	•097	- 5
7/ 9/			•		36.09N	145.39E		.070	• 232	•30	7/ 9/77			_	47.00N	161.27w		.033	-146	•23
7/ 9/					36.43N	147.05E		.034	•118	•29	7/ 9/77				47.07N	159.14W		.059	•234	.25
7/ 9/					36.76N	148.80E		.024	•120	•20	7/ 9/77				46.93N	156.99W		.093	•398	.23
7/ 9/	• • •				36.93N	149.74E		.019	• 095		7/ 9/77		47		46.75N	154.87W		.106	•254	.42
7/ 9/					37.20N	150.67E		•009	• 0 4 0		7/ 9/77			-	46.64N	153.80W		.083	•068	
7/ 9/					37.53N	151.62E		.011	•041		7/ 9/17				46.52N	152.75W		.027	• 036	
7/ 9/			_		38.14N	153.45E	-55•	.000	• 045		7/ 9/77				46.40N	151.73w		.000	•032	
7/ 9/					39.28N	157.30E		.000	• 055		7/ 9/77			_	46.26N	150.70W		.005	•041	
7/ 9/			1:44	391	39.81N	159.33E	-55•	.022	• 040		7/ 9/77				46.03N	149.08W			•042	
7/ 9/					40.06N	160.34E		.000	•041		7/ 9/77				45.69N	147.07W		.019	• 064	
7/ 9/					40.31N	161.35E		.000	•039		7/ 9/77				45.33N	145.09W		.020	•071	
7/ 9/					40.54N	162.36E		.016	•041		7/ 9/77				44.94N	143.15W		.052	•074	
7/ 9/				_	40.77N	163.39E		.005	•039		7/ 9/77			_	44.74N	142.20W		.057	•083	
7/ 9/					41.20N	165.47E		.000	•028		7/ 9/77				44.30N	140.31W			•105	
7/ 9/					41.60N	167.55E		.051	•231	•22	7/ 9/77				44.06N	139.40W			•132	
7/ 9/			2:34	391	41.94N	169.57E	-57•	.059	•189	•31	7/ 9/77		**	_	43.77N	138.53W	-66.	.000	•131	.00
7/ 9/			2:47	391	42.50N	172.02E	-54.	.156	•518	•30	7/ 9/77		and the second		43.47N	137.68W		.006	•114	.05
7/ 9/	/77 1	142	2:57	391	42.92N	173.95E	<b>-</b> 55•	.108	•202	•53	7/ 9/77	1548			43.16N	136.83W	-66.	.040	•133	.30
7/ 9/	777 ]	152	3:07	391	43.32N	175.89E	-57.	.167	• 425	• 39	7/ 9/77	1558	7:13	+10	42.54N	135.19W	-66.	.045	•167	.27
7/ 9/	/77 ]	202	3:17	391	43.67N	177.81E	-55•	.185	• 447	• 4 l	7/ 9/77	1608	7:23	410	41.88N	133.55W	-66.	.069	•192	.36
₹ 7/ 9/	/77 ]	207	3:22	391	43.82N	178.73E	-54.	.213	•474	• 45	7/ 9/17	1618	7:33	410	41.19N	131.92w	-65.	.035	•142	.25
₩ 7/ Y/	/77 ]	212	3:27	391	43.97N	179.68E	-52.	.219	•536	•41	7/ 9/77	1628	7:43 4	+10	40.48N	130.32W	-63.	.043	•186	.23
7/ 9/	/77 1	217	3:32	391	44.17N	179.37W	-52•	.223	•505	• 44	7/ 9/77	1633	7:48	410	40.12N	124.54W	-62.	.064	.201	.32
7/ 9/	/77 ]	222	3:37	391	44.40N	178.42W	-53.	.234	• 498	• 47	7/ 9/77	1638	7:53 4	+10	39.74N	128.78W	-63.	.094	.201	.47
7/ 9/	777 1	232	3:47	391	44.85N	176.46W	-55.	.219	•459	• 48	7/ 9/77	1643	7:58 4	410	39.36N	128.02W	-60.	.142	•333	.43
7/ 9/	777 1	245	4:00	391	45.40N	173.80W	-58.	.112	•168	•67	7/ 9/77	1648	8:03	+10	38.98N	127.27W	-60.	.270	•414	.65
7/ 9/	777 ]	255	4:10	391	45.78N	171.72W	-58.	.054	.122	• 4 4	7/ 9/77	1658	8:13	410	38.27N	125.71W	-57.	.263	•373	.71
7/ 9/	77 1	305	4:20	391	46.11N	169.62W	-58•	.050	•161	• 31	7/ 9/77	1708	8:23	410	37.86N	123.96W	-58.	.134	•146	.92
7/ 9/	777 1	315	4:30	391	46.39N	167.56W	-60.	.042	•099		7/ 9/77	1723	មិរិនិង 4	410	36.84N	121.55W	-59.	.101	•122	.83
7/ 9/	777 ]	320			46.51N	166.53W		.033	•109	•30	7/ 9/77	1728	8:43	410	36.38N	120.91W	-60.	.070	•050	
7/ 9/	777 1	325	4:40	391	46.63N	165.50W	-61.	.036	•101	• 36	7/ 9/77	1733	8:48	+10	35.90N	120.26W	-61.	.035	.044	
											7/ 9/77	1738	8:53 4	408	35.39N	119.76W	-60.	.039	•052	



MAXIMUM VALUES: AMBIENT OZONE= .451 CABIN OZONE= .194 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .84 TOTAL OBS IN CABIN: 74
DATA SOURCE: GASP TAPE VEOLO, FILE 4

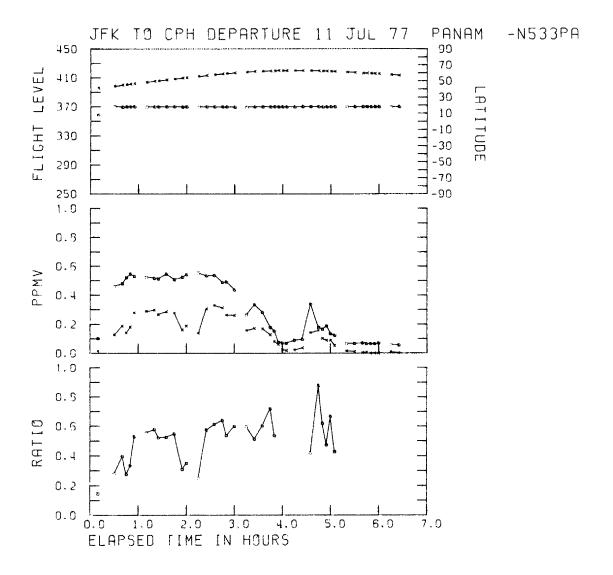
	•				,															
MOZDA	<b>∠</b> YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN		RATIO
7/9	/77	2037	0:10	331	35.36N	120.56W	-43-	.000	•037		7/10/77	0122	4:55	391	48.39N	166.39W	-60.	.074	•268	.28
		2047			36.31N	121.70W			•056		7/10/77	0127	5:00	390	48.55N	167.27W	-60.	.096	•305	.31
		2057			37.20N	122.86W			.211	.10	7/10/77	0137	5:10	391	48.86N	169.09W	-60.	.070	•224	.31
		2107			37.53N	124.39W			•149	•19	7/10/77	0147	5:20	<b>391</b>	48.94N	170.97W	-60.	.116	•394	. 29
		2112	-		37.70N	125.19W			•156	•21	7/10/77	0157	5:30	<b>39</b> 1	48.80N	172.88W	-57.	.194	•451	.43
		2117	-		37.89N	126.02W			•095		7/10/77	0207	5:40	391	48.63N	174.82W	-58.	.145	•278	.52
	-	2122			38.13N	126.84W			•098		7/10/77	0212	5:45	391	48.53N	175.80W	+57.	.105	•125	.84
7/ 9	177	2127	1:00	350	38.37N	127.67W	-52.	.028	•069		7/10/77	0217	5:50	<b>391</b>	48.42N	176.78W	-55.	.113	•382	.30
7/ 9	777	2137	1:10	350	38.83N	129.34W	-52.	.021	•050		7/10/77	0222	5:55	390	48.30N	177.74W	-58.	.120	•324	.37
7/ 9	177	2147	1:20	351	39.24N	130.99W	-52.	.014	• 060		7/10/77	0227	6:00	391	48.18N	178.69W	-58.	.127	•336	.38
		2157	1:30	351	39.63N	132.64W	-52.	.003	•053		7/10/77	0237	6:10	391	47.92N	179.47E	-58.	.104	.296	.35
7/ 9	177	2207	1:40	350	39.99N	134.34W	-51.	.007	-048		7/10/77	0247	6:20	390	47.61N	177.60E	-60.	.073	•226	.32
7/ 9	177	2212	1:45	350	40.16N	135.21W	-51.	.012	• 059		7/10/77	<b>)257</b>	6:30	391	47.27N	175.75E	-60.	.105	•338	.31
7/9	177	2217	1:50	350	40.33N	136.08W	-51.	.010	•060		7/10/77	0307	6:40	391	46.91N	173.94E	-60.	.133	•229	.58
7/ 9	777	2222	1:55	351	40.49N	136.96W	-51.	.000	• 058		7/10/77	0312	6:45	391	46.72N	173.07E	-61.	.086	•151	.57
7/ 9	777	2227	2:00	351	40.65N	137.84W	-51.	.003	•060		7/10/77				46.52N	1/2.18E	-60.	.053	•147	.36
		2237	2:10	351	40.94N	139.63W	~50•	.001	•051		7/10/77				46.32N	171.32E		.034	.061	
		2257			41.73N	143.14W			•067		7/10/77				46.10N	170.42E		.010	• 056	
		2907			42.10N	144.88W			•077		7/10/77				45.67N	168.68E		.001	• 057	
		2312			42.27N	145.74W			•078		7/10/77				45.20N	166.91E		.005	• 052	
		2317			42.43N	146.61W			• 050		7/10/77				44.70N	165.17E		.000	•064	
		2322			42.59N	147.47W			• 048		7/10/77				43.89N	162.58E		.011	• 066	
		2327			42.73N	148.31W			• 047		7/10/77				43.60N	161.71E		.015	•072	
0.		2337			43.00N	149.98W			•051		7/10/77				43.30N	160.86E		.029	•278	.10
		2347	-		43.69N	151.50W			•044		7/10/77				42.73N	159.20E		.081	•380	.21
		2357			44.34N	152.98W			•083		7/10/77				42.14N	157.55E		.080	329	.24B
		0007			44.96N	154.45W		.025	•101	•25	7/10/77				41.54N	155.95E		.015	•107	.148
		0012	-		45.26N	155.20W		.022	•095		7/10/77				40.93N	154.41E		.008	•089	В
		0017			45.55N	155.94W		.017	•063		7/10/77				40.56N	153.51E		•000	•088	В
		0022			45.83N	156.69W		.019	-081		7/10/77	_			39.91N	152.01E		.002	•132	.028
		0027			46.11N	157.44W		.013	•096		7/10/77			_	39.24N	150.53E		.000	.081	8
		0037			46.65N	158.97W		.025	• 096		7/10/77				37.96N	147.56E		.007	•113	.06B
		0047			47.14N	160.57W		.002	•097		7/10/77				37.61N	146.78E		.007	•094	В
		0057			47.53N	162.22W			•222	•17	7/10/77					146.01E		.007	•091	В
		0107			47.90N	163.88W			•237	-29	7/10/77				36.90N			.015	•086	В
		0112			48.07N	164.70W		.079	•196	•40	7/10/77				36.54N	144.498	-	.015	•080	8
7/10	1777	0117	4:50	391	48.23N	165.53W	-60+	.071	•181	•39	7/10/77	0018	7:51	410	NIR.CC	143.038	-5/.	.004	•073	



MAXIMUM VALUES: AMBIENT OZONE= .593 CABIN OZONE= .293 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.02 TOTAL OBS IN CABIN: 84

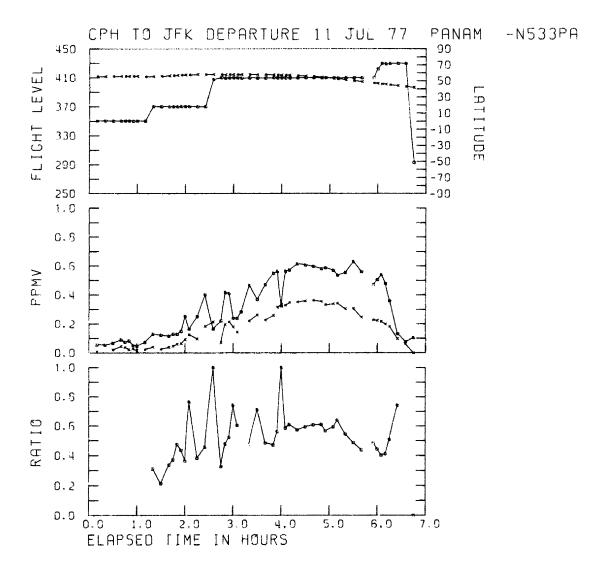
DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" ÅFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

		-					•						• •							
	MO/DA/YR	GMŢ	ETIM HR:MN	FL	LAT	LONG	TEMP	CABIN OZONE(		RATIO	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (	PPMV) AMB.	RATIO
	7/10/77	0953	0:10	310	36.42N	142.22E	-33.	.007	•072		7/10/77	1541	5:58	370	59.42N	148.56W	-48.	.250	•500	.50
	7/10/77				36.94N	143.85E		.000	• 056		7/10/77				59.43N	147.21W		.268	• 44H	.60
	7/10/77				37.86N	145.09E		.000	•053		7/10/77		6:13	370	59.49N	144.54W	-48.	.281	•531	.53
	7/10/77	1023	0:40	351	38.81N	146.30E	-42.	•000	• 049		7/10/77	1606	_		59.52N	141.88w	-48.	.283	• 496	.57
	7/10/77				39.27N	146.94E		.013	• 057		7/10/77				59.53N	139.22w		.283	•525	-54
	7/10/77				39.74N	147.58E			•071		7/10/77				59.57N	136.51W		•263	•539	498
	7/10/77				40.20N	148.23E		.022	•083		7/10/77	_			59.57N	135.14W		.201	•532	.38B
	7/10/77				40.66N	148.88E	-	.012	•097		7/10/77				59.56N	133.80W		•164	•526	.31B
	7/10/77 7/10/77		-		41.60N 42.48N	150.30E 151.79E		.022 .029	•077		7/10/77 7/10/77	_			59.52N 59.46N	132.46W 131.12W		•155 •154	•532 •535	.29B .29B
	7/10/77		_		43.30N	151.79E		.010	•058		7/10/77				59.32N	128.41W		.138	•555	.25B
	7/10/77				44.11N	154.82E		.007	•048		7/10/77		* ** *		59.13N	125.71w		.146	•526	.28B
	7/10/77		-		44.50N	155.60E		.001	• 045		7/10/77				58.89N	123.03W		.153	•551	.28B
	7/10/77		_		44.90N	156.42E		.002	• 041		7/10/77		7:43	390	58.53N	120.39W		.155	•405	.38B
	7/10/77	1138			45.27N	157.20E	-46.	.005	•042		7/10/77	1731	1:48	390	58.31N	119.09W	-49.	.148	•490	.30B
	7/10/77	1143	2:00	351	45.65N	158.04E		.000	•039		7/10/77	1736	7:53	390	58.08N	117.79W	-51.	.147	•473	.318
	7/10/77	1153	2:10	351	46.38N	159.70E	-47.	.001	• 049		7/10/77	1741			57.84N	116.58W	-49.	.245	•531	.46
	7/10/77				46.96N	160.94E		.010	•053		7/10/77		1		57.58N	115.32w		.250	•593	.42B
	7/10/77	-			48.19N	163.65E		.013	- 058		7/10/77				57.04N	112.92W		.181	•519	.358
	7/10/77		-		48.99N	165.54E		.008	• 055		7/10/77				55.96N	108.17W		.153	•525	.29B
	7/10/77		-		49.38N	166.52E	•	.038	•117	• 32	7/10/77				55.40N	105.90W		.166	•506	.33B
>	7/10/77 7/10/77		-	_	49.75N 50.13N	167.51E 168.53E		.052 .051	•129 •156	•40 •33	7/10/77 7/10/77			_	55.10N 54.79N	104.78W 103.67W		•159 •154	•522 •542	.30B .26B
32	7/10/77	-	-		50.13N	169.53E		.072	•158	• 46	7/10/77				54.46N	102.55W		.143	•561	.258
7	7/10/77				51.28N	171.36E		.025	•042	•+0	7/10/77	_	-		54.13N	101.49W		.137	•549	.258
	7/10/77				52.14N	173.21E		.011	•256	• 04	7/10/77				53.45N	99.41W		.101	•542	198
	7/10/77				53.06N	174.99E		.070	•289	.24	7/10/77				52.73N	97.39W		.072	.471	158
	7/10/77				53.78N	177.10E		.219	•525	•42	7/10/71	1916	9:33	410	51.99N	95.49W	-62.	.065	•37ī	.188
	7/10/77	1331	3:48	370	54.14N	178.18E	-42.	.244	•531	•46	7/10/77	1926	9:43	410	51.22N	93.64W		.093	•314	.30
	7/10/77	1336	3:53	370	54.49N	179.27E	-40.	.247	•516	•48	7/10/77		_		50.83N	92.74W		.129	•298	.43
	7/10/77				55.16N	178.51w		.268	•531	•50	7/10/77				50.43N	91.82M		.159	•313	.51
	7/10/77	_			55.80N	176.20W	_	.281	•530	•53	7/10/77	_			50.01N	90.97W		.144	•322	.45
	7/10/77	-			56.39N	173.77W		.293	•536	•55	7/10/77				49.59N	90.10W		.155	•303	•5i
	7/10/77				56.92N	171.31W		.278	•514	•54	7/10/77		-		48.72N	88.39W		•107	•271	.39
	7/10/77				57.45N	168.80W		.232	•277	•84	7/10/77				47.81N	86.71W		.071	•166	.43
	7/10/77 7/10/77	_			57.71N 57.95N	167.51W 166.20W		.158	-200	•79 •74	7/10/77 7/10/77				47.03N 46.20N	84.88W 83.03W		.026	•103	.07
	7/10/77				58.18N	166.20W		.089	•179 •119	•75	7/10/77				45.78N	82.14W		.108	•353 •410	.26
	7/10/77				58.40N	163.53W		.057	•118	•48	7/10/77	_	-		45.34N	81.26W		.134	•350	.38
	7/10/77				58.63N	160.78W		• • • • •	•134	• 70	7/10/77			4 2	44.90N	80.38W		.146	•242	.60
	7/10/77	- 2.	-		58.91N	158.05W		.087	-134		7/10/77	_			44.45N	79.52W		.110	•108	
	7/10/77				59.13N	155.26W		.139	•534	•26	7/10/77	-	_		43.51N	77.78W		•035	•136	.26
	7/10/77		-		59.39N	149.91w		.252	•517	•49	7/10/77				42.54N	76.11W		.030	•137	.22
	· ·					. •			- ·		7/10/77	-	-		41.86N	74.19W		.031	•097	•



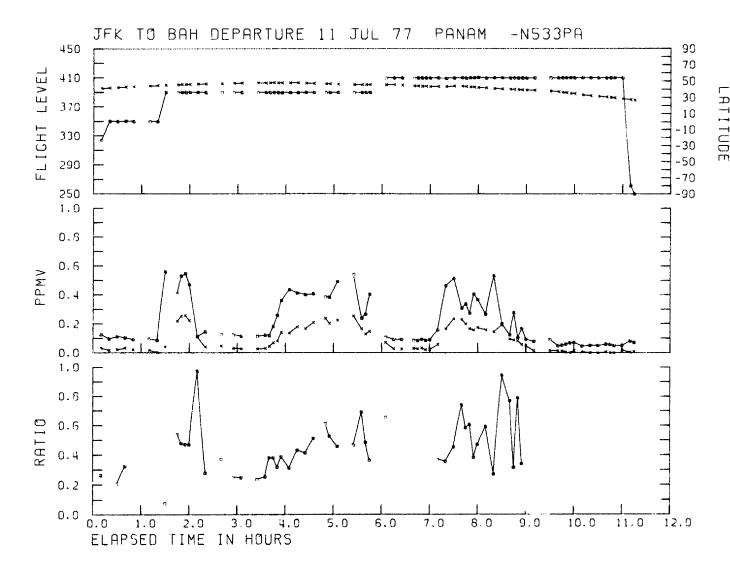
MAXIMUM VALUES: AMBIENT OZONE= .555 CABIN OZONE= .330 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .88 TOTAL OBS IN CABIN: 44 DATA SOURCE: GASP TAPE VL010, FILE 4

МО	/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE		RATIO	MOZOAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		ОІТДЯ
7	/11/77	0237	0:10	359	41.49N	71.69W	-48-	.015	•103	•15	7/11/77	0612	3:45	370	62.69N	34.07W	-56.	.128	•178	.72
7	/11/77	0257	0:30	370	44.00N	69.91W	-49.	.129	•461	•28	7/11/77	0617	3:50	370	62.82N	32.52W	-56.	.082	•153	.54
7	/11/77	0307	0:40	369	45.20N	68.91W	-50 •	.189	•479	•39	7/11/77	0622	3:55	370	52.94N	30.96W	-57.	.061	•077	
7	/11/77	0312	0:45	370	45.78N	68.40W	-48.	.143	•521	•27	7/11/77	0627	4:00	370	63.02N	29.41W	-57.	.025	.071	
7	/11/77	0317	0:50	370	46.36N	67.89W	-48.	.182	•546	•33	7/11/77	0632	4:05	370	63.06N	27.85W	<b>-</b> 57.	.019	.069	
7	111/77	0322	0:55	370	46.94N	67.36W	-48.	.280	•531	•53	7/11/77	0642	4:15	370	63.09N	24.74W	-57.	.024	•090	
7	/11/77	0337	1:10	370	48.69N	65.67W	-46.	.291	•525	•55	7/11/77	0652	4:25	370	63.05N	21.71w	-56.	.037	•098	
7	/11/77	0347	1:20	370	49.86N	64.47W	-47.	.299	•518	•58	7/11/77	0702	4:35	370	62.91N	18.73W	-54.	.142	•338	.42
7	/11/77	0352	1:25	370	50.45N	63.83W	-46.	.268	•514	•52	7/11/77	0712	4:45	370	62.67N	15.76W	<b>-</b> 56∙	.158	.180	.88
7	/11/77	0402	1:35	370	51.61N	62.52W	-43.	.287	•547	•52	7/11/77	0717	4:50	370	62.52N	14.25W	<b>~</b> 56.	.103	•166	.62
7	/11/77	0413	1:46	370	52.78N	61.12W	-42.	.278	•508	•55	7/11/77	0722	4:55	370	62.35N	14.76W	-57.	.089	-188	.47
7	/11/77	0422	1:55	370	53.88N	59.58W	-41.	.162	•525	•31	7/11/77	0727	5:00	370	62.17N	11.28W	-57.	.090	•135	.67
7	/11/77	0427	2:00	370	54.43N	58.73W	-41.	.189	.542	• 35	7/11/77	0732	5:05	370	61.96N	9.82W	-57.	.053	.124	
7	/11/77	0442	2:15	370	56.02N	56.05W	-41.	.139	• 555	• 25	7/11/77	0747	5:20	370	61.08N	5.79₩	-58.	.015	•067	-
7	//11/77	0452	2:25	370	57.02N	54.18W	-44.	.306	•534	•57	7/11/77	0757	5:30	370	60.44N	J.27W	-58.	.011	•067	
7	//11/77	0502	2:35	370	58.02N	52.17W	-46.	.330	•538	•61	7/11/77	0807	5:40	370	59.79N	.83W	-58.	.004	•070	
7	//11/77	0512	2:45	370	58.99N	50.02W	-48.	.313	•489	•64	7/11/77	0812	5:45	370	59.63N		<b>-</b> 58.	.006	.065	
7	/11/77	0517	2:50	370	59.41N	48.87W				•54	7/11/77		5:50	370	59.44N	1.87E		.000	• 065	
	/11/77				60.23N	46.41W					7/11/77				59.21N	3.17E		.000	•065	
	/11/77				61.32N	42.68W			-265		7/11/77				59.03N	4.50E		.000	•070	
	/11/77				61.99N	40.04W			•334		7/11/77				57.93N	7.99E		.009	•058	
	/11/77				62.37N	37.12W		.170	•282	-	7/11/77	_			57.03N	10.05E		.001	•056	
≻					- <del>-</del>					•		_				-				



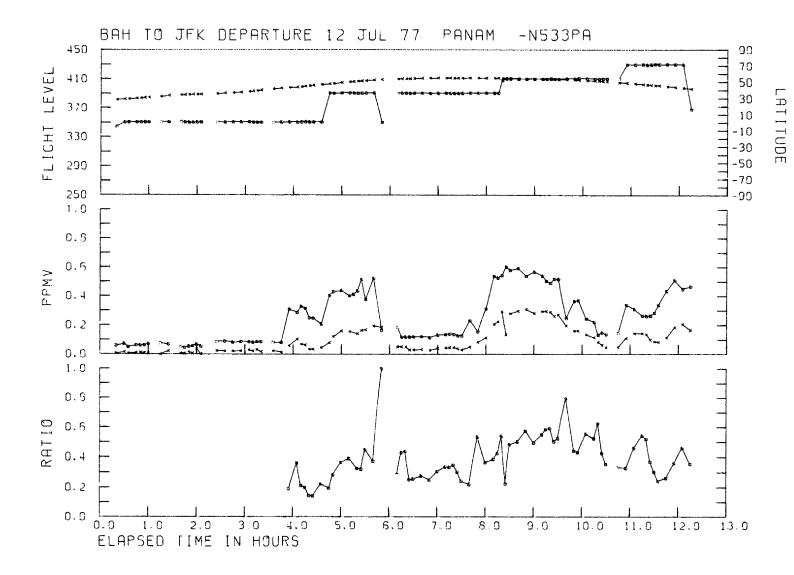
MAXIMUM VALUES: AMBIENT OZONE= .630 CABIN OZONE= .363 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.29 TOTAL OBS IN CABIN: 50 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR GMT	ETIM FL HR:MN	LAT LONG	TEMP (C)	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE(		RATIO
7/11/77 1234	0:10 351	55.63N 8.94E	-54.	.007	• 056		7/11/77	1544	3:20	410	58.07N	37.43W	-51.	.222	•465	.48
7/11/77 1244	0:20 351	55.71N 6.61E	-53.		• 054		7/11/77	1554			58.00N	39.90W	-53.	.263	•369	.71
7/11/77 1254	0:30 350	55.83N 4.22E	-53.	.022	•067		7/11/77	1604			57.84N	42.36W	-48.	.228	•471	.48
7/11/77 1304	0:40 350	55.90N 1.79E	-53.	.046	•090		7/11/77	1614	~		57.62N	44.86W	-46.	.259	•550	.47
7/11/77 1309	0:45 350	55.91N .56E	-53•	.038	•074		7/11/77				57.49N	40.10W		•316	•563	•56
7/11/77 1314	0:50 351	55.92N .67W	-53•	.023	•084		7/11/77	1624	11 10		57.35N	47.34W		.333	•324	1.03
7/11/77 1319	0:55 350		-54.	.029	• 052		7/11/77				57.19N	48.57W		.329	•562	.59
7/11/77 1324	1:00 351			.015	• 048		7/11/77				57.03N	49.80W		.348	•571	-
7/11/77 1334	1:10 350		-54•	.023	•073		7/11/77	_			56.58N	52.20W		•353	•615	.57
7/11/77 1345	1:21 370			.040			7/11/77	_			56.09N	54.52W		.360	•606	•
7/11/77 1354	1:30 370			.026	•122	. –	7/11/77		A		55.56N	56.79W		•363	•597	•61
7/11/77 1404	1:40 370			.039			7/11/77				54.63N	58.56W		.355	•581	.6 <u>l</u>
7/11/77 1409	1:45 370			.048	•129		7/11/77				54.10N	59.33W		•333	•588	.57
7/11/77 1414	1:50 370			.061			7/11/77				53.01N	60.83W		•339	•570	
7/11/77 1419	1:55 370			.065	•149		7/11/77		_		52.45N	61.55W		.343	•536	.64
7/11/77 1424	2:00 370			.092			7/11/77	-			51.37N	62.86W		.303	•556	•
7/11/77 1429	2:05 370			.126	165		7/11/77		and the second second		50.25N	64.14W		.306	•630	-
7/11/77 1439	2:15 370		, <del>-</del> -	.096			7/11/77		_	61	49.11N	65.37W		.246	•561	•
7/11/77 1449	2:25 370			.183			7/11/77				47.38N	67.10W		.228	•471	.48
7/11/77 1459	2:35 408			.213	-	1.29	7/11/77		er e e	,	46.84N	67.63W		.224	•505	-
7/11/77 1509	2:45 410			.072			7/11/77			-	46.26N	68.16W		.217	•538	.40
7/11/77 1514	2:50 409			.197			7/11/77				45.69N	68.66W	-	.198	•480	
£ 7/11/77 1519	2:55 410			.214	•410		7/11/77				45.12N	69.16W		.182	• 359	-
<b>≅</b> 7/11/77 1524	3:00 410			.178	•240		7/11/77				44.02N	70.08W		.098	•132	.74
7/11/77 1529	3:05 410			.144			7/11/77				42.91N	70.96W		.061	•076	
7/11/77 1534	3:10 410	58.10N 34.95w	-51•		•284		7/11/77	1909	6:45	293	41.79N	71.73W	-34.	.000	•105	• 00



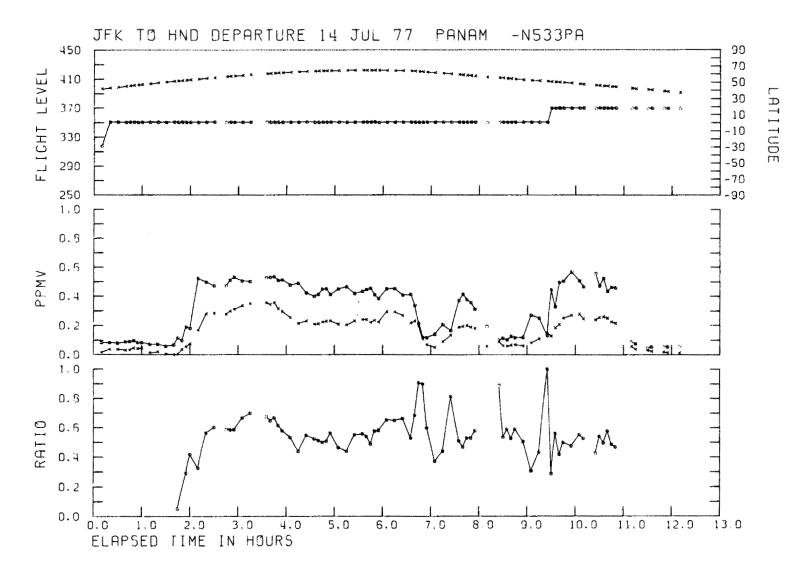
MAXIMUM VALUES: AMBIENT OZONE= .558 CABIN OZONE= .257 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .97 TOTAL OBS IN CABIN: 74
DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

MO/DA/YR   GMT   HRIMN   HRIMN   TO.55   TabP DZUNE (PPMV) RATIO   MO/DA/YR   GMT   HRIMN   HRIMN   TO.55   TabP DZUNE (PPMV)   RATIO   MO/DA/YR   GMT   HRIMN   HRIMN   TO.55   TabP DZUNE (PPMV)   RATIO   TabP DZUNE (PPMV)																-					
7/11/77 2316 0:20 350 41.69N 68.67W -48, 017 0906 7/12/77 0561 6:50 410 44.13N 10.54E -54. 0.028 0.084 7/11/77 2326 0:30 350 42.25N 66.7*W -48. 0.23 111 21 7/12/77 0561 6:50 410 43.93N 11.56E -54. 0.033 0.093 7/11/77 2336 0:40 350 42.78N 64.78W -49. 0.033 102 32 7/12/77 0561 6:50 410 43.93N 11.56E -55. 0.021 0.086 7/12/77 0006 1:10 350 44.20N 58.77W -53. 0.08 0.096 7/12/77 0506 7:10 410 43.56N 13.57E -53. 0.025 0.099 7/12/77 0016 1:20 350 44.60N 58.77W -53. 0.08 0.065 7/12/77 0606 7:10 410 43.56N 13.57E -53. 0.025 0.099 7/12/77 0016 1:20 350 44.60N 58.77W -53. 0.08 0.065 7/12/77 0616 7:10 410 43.50N 13.60E -53. 0.058 0.099 7/12/77 0016 1:20 350 44.60N 58.75W -48. 2.19 4.07 4.54 7/12/77 0.026 7:10 410 43.50N 13.60E -53. 0.058 0.099 7/12/77 0.026 1:30 390 45.10N 58.60W -49. 0.042 558 0.08 7/12/77 0.026 7:10 410 43.95N 21.16E -50. 0.228 3.018 7.74 7/12/77 0.041 1:65 390 45.0N 58.50W -49. 0.42 558 0.08 7/12/77 0.026 7:10 410 43.95N 21.6E -50. 0.228 3.018 7.74 7/12/77 0.051 1:55 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:55 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:55 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:55 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:50 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:50 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:50 390 45.0N 49.91W -58. 0.08 11.97 7/12/77 0.051 1:50 390 45.0N 39.0N 58. 0.00 4144 2.28 7/12/77 0.051 1:00 390 48.4N 30 48.4NW -58. 0.08 11.97 7/12/77 0.051 1:00 390 48.4N 30 48.9N 58. 0.040 1.44 2.28 7/12/77 0.051 1.10 410 41.99N 20.066 40. 1.57 3.37 4.77 12/77 0.051 2:00 390 45.0N 39.0N 59. 0.00 57. 0.047 1.20 37 7/12/77 0.051 1.10 4.20 390 47.0N 30.45N 58. 0.040 1.44 2.28 7/12/77 0.051 1.10 4.20 N 2.00 58.00 59 7/12/77 0.051 1.10 4.00 59 90 47.0N 30.45N 58. 0.040 1.44 2.28 7/12/77 0.051 1.10 4.20 N 2.00 59 90 4.00 59		MOZDAZYR	GMT		FL	LAT	LONG				RATIO	MOZNAZYR	GMT		FL	LAT	LONG				RATIO
7/11/77 2316 0:20 350 41.69N 68.67W -48, 017 0906 7/12/77 0561 6:50 410 44.13N 10.54E -54. 0.028 0.084 7/11/77 2326 0:30 350 42.25N 66.7*W -48. 0.23 111 21 7/12/77 0561 6:50 410 43.93N 11.56E -54. 0.033 0.093 7/11/77 2336 0:40 350 42.78N 64.78W -49. 0.033 102 32 7/12/77 0561 6:50 410 43.93N 11.56E -55. 0.021 0.086 7/12/77 0006 1:10 350 44.20N 58.77W -53. 0.08 0.096 7/12/77 0506 7:10 410 43.56N 13.57E -53. 0.025 0.099 7/12/77 0016 1:20 350 44.60N 58.77W -53. 0.08 0.065 7/12/77 0606 7:10 410 43.56N 13.57E -53. 0.025 0.099 7/12/77 0016 1:20 350 44.60N 58.77W -53. 0.08 0.065 7/12/77 0616 7:10 410 43.50N 13.60E -53. 0.058 0.099 7/12/77 0016 1:20 350 44.60N 58.75W -48. 2.19 4.07 4.54 7/12/77 0.026 7:10 410 43.50N 13.60E -53. 0.058 0.099 7/12/77 0.026 1:30 390 45.10N 58.60W -49. 0.042 558 0.08 7/12/77 0.026 7:10 410 43.95N 21.16E -50. 0.228 3.018 7.74 7/12/77 0.041 1:65 390 45.0N 58.50W -49. 0.42 558 0.08 7/12/77 0.026 7:10 410 43.95N 21.6E -50. 0.228 3.018 7.74 7/12/77 0.051 1:55 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:55 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:55 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:55 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:50 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:50 390 45.0N 49.91W -49. 2.57 5.66 47 7/12/77 0.051 1:50 390 45.0N 49.91W -58. 0.08 11.97 7/12/77 0.051 1:50 390 45.0N 39.0N 58. 0.00 4144 2.28 7/12/77 0.051 1:00 390 48.4N 30 48.4NW -58. 0.08 11.97 7/12/77 0.051 1:00 390 48.4N 30 48.9N 58. 0.040 1.44 2.28 7/12/77 0.051 1.10 410 41.99N 20.066 40. 1.57 3.37 4.77 12/77 0.051 2:00 390 45.0N 39.0N 59. 0.00 57. 0.047 1.20 37 7/12/77 0.051 1.10 4.20 390 47.0N 30.45N 58. 0.040 1.44 2.28 7/12/77 0.051 1.10 4.20 N 2.00 58.00 59 7/12/77 0.051 1.10 4.00 59 90 47.0N 30.45N 58. 0.040 1.44 2.28 7/12/77 0.051 1.10 4.20 N 2.00 59 90 4.00 59		7/11/77	2304	0.43.0	224	41 141	70 EEW	- 4.0	023	105	26	7/12/77	0536	5.40	410	44 224	บและ	_ 44.4	150	007	
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		7/12/77	0521	6:25	410	45.26N	6.78E	-52•	.027	•092		7/12/77	1015V	11:16	201	26.78N	50.32E	-3.	•009	•071	



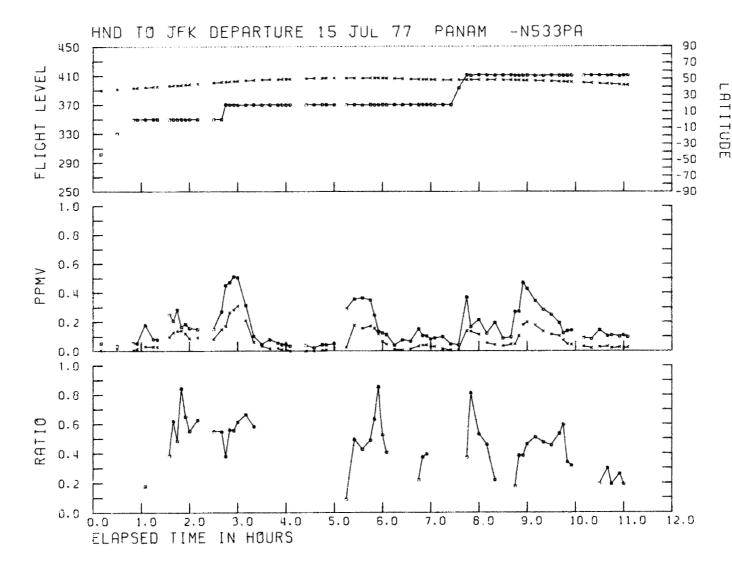
MAXIMUM VALUES: AMBIENT OZONE= .604 CABIN OZONE= .310 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.11 TOTAL OBS IN CABIN: 90 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

(	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE(		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE( CABIN	PPMV) AMB.	RATIO
	7/12/77	2143	0:20	344	28.15N	46.52E	-36•	.007	•060		7/14/77	0348	6:25	390	54.36N	4.67W	-59.	.030	•119	.25
	7/12/77	2153			28.85N	45.07E	-38•	.014	•072		7/14/77	0353	6:30	391	54.49N	5.85W	-59.	.031	.121	.26
	7/12/77	2158	0:35	350	29.21N	44.34E	-39.	.006	•050		7/14/77	0403	6:40	391	54.80N	8.22W	-59.	.034	•123	.28
	7/12/77	2208	0:45	350	29.95N	42.89E	-39.	.010	•062		7/14/77	0413	6:50	390	55.02N	10.64W	-60.	.029	•116	.25
	7/12/77		0:50	350	30.34N	42.17E	-39•	.013	•062		7/14/77	0423			55.09N	13.12W	-59.	.041	•134	.31
	7/13/77				30.73N	41.44E		.008	•062		7/14/77	0433			55.10N	15.58W	-59.	.046	•137	.34
	7/12/77				31.05N	40.71E	_	.005	•071		7/14/77				55.09N	16.81W	-59.	.047	•141	.33
	7/12/77	7.			32.03N	38.67E	-39.	.000	•076		7/14/77		7:20	390	55.06N	18.03W	-59.	.048	•138	.35
	7/12/77				33.48N	38.58E	-	.023	•068		7/14/77				55.03N	19.25W		.039	•129	.30
	7/12/77		-		34.35N	36.07E		.007	•050		7/14/77				55.02N	20.47W		.031	•128	.24
	7/12/77				34.34N	35.29E		.006	• 046		7/14/77				55.08N	22.89W		.051	•232	.22
	7/12/77				34.59N	34.54E		.016	• 054		7/14/77			_	55.10N	25.33W		.083	•156	•53
	7/12/77				34.83N	33.76E		.007	•057		7/14/77	_			55.07N	27.70W		.114	•313	.36
	7/12/77				34.94N	32.97E		.037	•067		7/14/77				55.00N	30.05W		.207	•538	.38
	7/12/77				35.02N	32.19E		.000	• 055		7/14/77				54.92N	31.20W		.224	•528	.42
	7/12/77				35.66N	29.25E		.024	•087		7/14/77				54.84N	32.38W		.294	•545	-54
	7/14/77				36.41N	27.87E		.022	•089		7/14/77				54.74N	33.53W		.136	•604	.23
	7/14/77 7/14/77				36.94N	26.36E		.022	•082		7/14/77	_			54.64N	34.68W		.281	•582	.48
	7/14/77				37.45N 38.29N	24.84E	_	.023	•087		7/14/77				54.40N	36.93W		.298	•594	.50
	7/14/77				38.96N	23.81E 23.75E		.030 .022	•085		7/14/77				54.11N	39.18W		.310	•540	•57
	7/14/77				39.59N	23.47E		.032	•082 •087		7/14/77 7/14/77	_			53.91N 53.74N	41.41W 43.62W		•282	•570	.49
₽	7/14/77		-		40.19N	23.14E	-	.016	•086		7/14/77	_			53.64N	44.68W		•297 •296	•542 •506	.55 .58
ည္ယ	7/14/77				41.69N	22.09E		023	•082		7/14/77		and the second		53.53N	45.74W		.291	•492	.59
51	7/14/77	-			42.57N	20.98E		.014	•081		7/14/77				53.42N	40.78W		.262	•520	50
	7/14/77				43.29N	19.68E		059	•309	•19	7/14/77				53.29N	47.81W		.272	•520	.52
	7/14/77		-		44.02N	18.36E		.104	•288	•36	7/14/77				53.03N	49.80W		.196	•247	.79
	7/14/77	0133			44.50N	17.85E		.070	•329	•21	7/14/77	_			52.62N	51.69W		.161	-365	44
	7/14/77	0138	4:15	351	44.99N	17.32E	-48.	.063	•315	•20	7/14/77	0716	9:55	411	52.41N	52.58W		.160	•371	43
	7/14/77	0143	4:20	351	45.49N	16.77E	-50 •	.036	.251	-14	7/14/77	072B	10:05	410	51.98N	54.31W	-60.	.135	.244	.55
	7/14/77	0148	4:25	351	45.99N	16.18E	-51.	.035	.248	•14	7/14/77	0738	10:15	410	51.53N	55.97W	-62.	.115	.220	52
	7/14/77	0158	4:35	350	47.00N	14.90E		.046	•207	•22	7/14/77	0743	10:20	410	51.21N	56.73W	-62.	.083	•133	.62
	7/14/77			-	47.97N	13.59E		.079	• 4 0 4	•20	7/14/77	0748	10:25	410	50.90N	57.46W	-62.	.063	•148	.43
	7/14/77				48.45N	12.92E		.122	•431	•28	7/14/77	-	10:30	410	50.58N	58.18W	-61.	.048	•135	.36
	7/14/77				49.40N	11.53E		.160	•438	•37	7/14/77		_		49.58N	60.29W		•049	.147	.33
	7/14/77				50.32N	10.04E		.157	•402	• 39	7/14/77				48.86N	61.73W	-57.	.111	•338	.33
	7/14/77				50.77N	9.32E	_		•412		7/14/77			_	48.09N	63.17W		.143	•310	.46
	7/14/77				51.20N	8.54E		.142	•436	•33	7/14/77				47.31N	64.56W		.143	•264	•54
	7/14/77				51.55N	7.63E		165	•515	•32	7/14/77			-	46.92N	65.24W		.136	•262	.52
	7/14/77	-			51.89N	6.72E		.169	•377	• 45	7/14/77	_			46.51N	65.92W		.098	•264	.37
	7/14/77				52.53N	4.87E		.195	•523	•37	7/14/77				46.10N	66.59W		.086	•283	.30
	7/14/77				53.16N	3.00E		.184	•166		7/14/77				45.70N	67.24W		.082	• 337	.24
	7/14/77				53.89N	1.21W		.053	•185	•29	7/14/77				44.86N	68.53W		•114	•434	.26
	7/14/77				54.05N	2.35W		.051	•119	•43	7/14/77		-		43.98N	69.83W		.184	•510	. 36
	7/14/77	0343	6:20	390	54.21N	3.49W	-59•	.052	•119	• 4 4	7/14/77				42.98N	70.89W		.207	• 449	.46
											7/14/77	0938	12:15	308	41-88N	71.77W	-51•	.166	•466	• 36



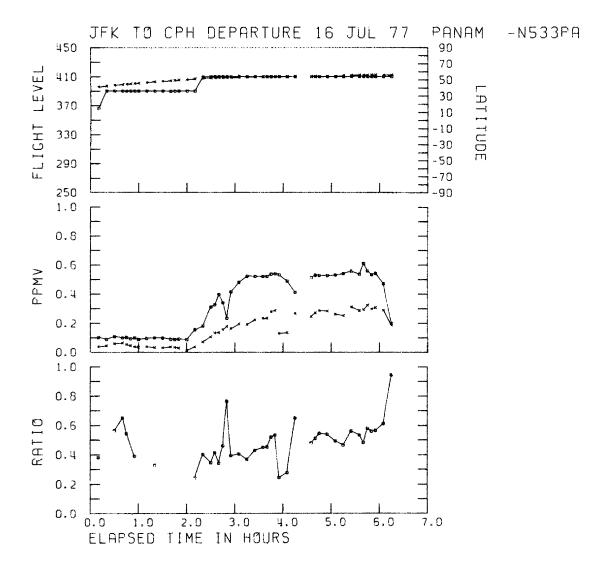
MAXIMUM VALUES: AMBIENT OZONE= .568 CABIN OZONE= .357 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.13 TOTAL OBS IN CABIN: 91 DATA SOURCE: GASP TAPE VL010, FILE 4

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M	O/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMB.	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	۴L	LAT	LONG	TEMP	OZONE (	PPMV)	RAT10
	7/14/77	2045	0:10	318	42.14N	75.38W	-30-	.017	•084		7/15/77	0240	6:05	351	64.75N	150.49W	-49.	.294	•451	.65
	7/14/77	_			43.21N	76.26W		.038	•083		7/15/77	-	6:15	351	64.58N	153.68W		.293	• 452	.65
	7/14/77				44.27N	77.20W		.038	.080		7/15/77	0300	6:2:	351	64.34N	156.84W	-47.	.270	•408	.66
	7/14/77				45.34N	78.17W			•090		7/15/77	0310	6:35	351	64.03N	159.94W	-50.	.218	•413	•53
	7/14/77	2120	0:45	351	45.87N	78.68W	-47.	.035	•091		7/15/77	0315	6:40	351	63.78N	161.44W	-54.	.231	•338	.68
	7/14/77	2125	0:50	351	46.41N	79.21W	-47.	.046	•097		7/15/77	0320	6:45	351	63.44N	162.86W	-56.	.195	•215	.91
	7/14/77	2130	0:55	350	46.95N	79.75W	-47.	.043	•084		7/15/77	0325	40.00	, -	63.10N	164.24W		.108	•120	.90
	7/14/77	2135			47.50N	80.31W	-48•		•084		7/15/77				62.74N	165.59W		• 0.70	•117	.60
	7/14/77	2145	1:10	351	48.55N	81.43W	-47.	.015	•072		7/15/77				61.97N	168.21W		.052	•140	.37
	7/14/77				49.58N	82.61W			•072		7/15/77				61.20N	170.63W		.091	•207	.44
	7/14/77				50.55N	83.99W			• 059		7/15/77	-			60.40N	172.98W		.134	•165	.81
	7/14/77		-		51.50N	85.39W			•067		7/15/77				59.57N	175.20W		.189	•371	•51
	7/14/77				51.97N	86.13W			•115	• 05	7/15/77				59.14N	176.28W		.194	•414	• 47
	7/14/77				52.44N	86.87W			•098		7/15/77			-	58.71N	177.31W		.200	•378	.53
	7/14/77				52.89N	87.62W			•190	-29	7/15/77				58.28N	178.31W		.189	•357	.53
	7/14/77				53.34N	88.37₩			•180	•42	7/15/77 7/15/77				57.84N 56.37N	179.27W		.181 .059	•313 •195	.58 .30
	7/14/77				54.24N	89.96W			•521 •497	•32 •56	7/15/77				55.63N	174.75E		.059	•195	.30
	7/14/77 7/14/77		_		55.13N 56.00N	91.66W 93.44W			472	•60	7/15/77				55.24N	173.81E		.061	•114	.54
	7/14/77				57.25N	96.28W			-474	•59	7/15/77		A		54.83N	172.84E		.060	-102	59
	7/14/77				57.64N	97.24W		299	•511	•59	7/15/77			-	54.44N	171.93E		.066	.125	.53
	7/14/77				58.03N	98.24W			•532	•59	7/15/77				54.01N	171.00E		.069	•117	.59
_	7/14/77				58.77N	100.26W			•505	•67	7/15/77				53.28N	169.11E		.060	•119	50
ω	7/14/77		_		59.50N	102.40W			•501	•70	7/15/77				52.66N	167.10E		.083	•271	.31
~	7/15/77				60.85N	107.00W			•529	•67	7/15/77		and the second second		52.05N	165.25E		.109	•251	.43
	7/15/77				61.16N	108.21W			•531	•65	7/15/77		9:25	351	51.40N	163.43E		.148	•131	
	7/15/77				61.46N	109.43W			•535	•67	7/15/77		9:30	370	51.06N	162.52E	-48.	.128	• 444	.29
	7/15/77	0025	3:50	351	61.74N	110.67W			•510	•62	7/15/77	0610	9:35	370	50.70N	161.61E	-48.	.184	•329	•56
	7/15/77	0030	3:55	351	62.01N	111.92W	-45.	.297	•513	•58	7/15/77	0615			50.35N	160.73E	-46.	.207	• 495	.42
	7/15/77	0040	4:05	351	62.53N	114.53W	-46.	.255	•478	•53	7/15/77	0620	9:45	370	49.98N	159.87E	-45.	.252	•505	.50
	7/15/77	0050	4:15	351	63.03N	117.19W	-48.	.215	•490	• 44	7/15/77				49.16N	158.28E		.270	•568	.48
	7/15/77	0100	4:25	351	63.48N	119.96W	<b>-</b> 50•		• 422	•55	7/15/77				48.32N	156.73E	-	.279	•506	.55
	7/15/77				63.88N	122.76W		.209	•400	•52	7/15/77				47.47N	155.26E		.246	•467	.53
	7/15/77				64.05N	124.17W		.211	•413	•51	7/15/77				46.61N	153.84E		.239	•559	.43
	7/15/77				64.22N	125.62W			• 449	•50	7/15/77	-			46.18N	153.16E		.255	•471	.54
	7/15/77				64.37N	127.08W			•451	•51	7/15/77				45.74N	152.48E	_	.260	•524	.50
	7/15/77				64.50N	128.55W			•412	•56	7/15/77				45.30N	151.81E	_	.251	•435	.58
	7/15/77				64.73N	131.55W		.209	• 450	•46	7/15/77				44.85N	151.16E		.225	•462	-49
	7/15/77				64.89N	134.65W			•465	• 4 4	7/15/77			4 6	44.41N	150.53E		.215	•459	.47
	7/15/77		-		64.99N	137.77W			•419	•55	7/15/77	_			42.75N	148.17E		.058	•090	
	7/15/77		-		65.02N	140.91₩			•434	•56	7/15/77				41.94N	147.06E		.038	•075	
	7/15/77				65.01N	142.49W			•446	•54	7/15/77			4 4	41.10N	145.96E		.031	•047	
	7/15/77				64.98N	144.08W	-		•455	•49	7/15/77	-			40.67N	145.41E		.024	• 054	
	7/15/77				64.94N	145.68W			•411	•58	7/15/77				39.35N	143.78E		.019	•057	
	7/15/77	0230	5:55	350	64.87N	147.33W	-50•	.224	• 385	•58	7/15/77				38.42N	142.68E		•014	• 054	
											1/15/11	V045	12.10	210	J1.44N	141.65E	-410	.014	•059	



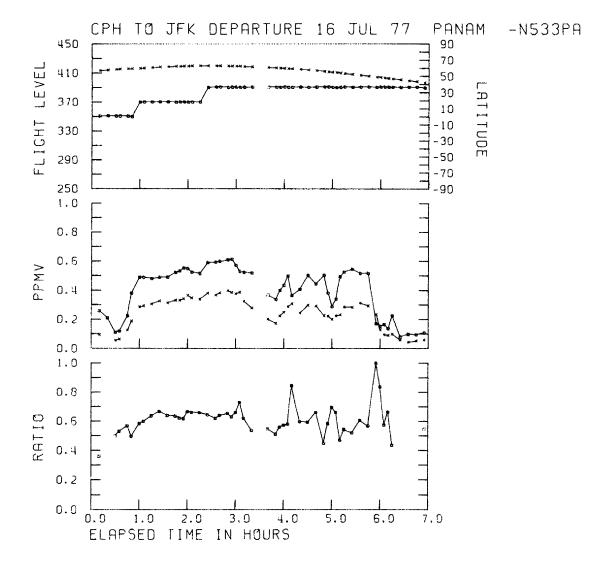
MAXIMUM VALUES: AMBIENT OZONE= .511 CABIN OZONE= .310 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .85 TOTAL OBS IN CABIN: 78 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE CABIN	(PPMV) AMB.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PMV)	RAT10
7/15/77	1131	0:10	302	35.73N	142.95E	-29.	.006	• 054		7/15/77	1724	6:03	370	50.95N	139.61W	-55.	.065	•124	.52
7/15/77		0:30	330	37.29N	146.13E		.016	• 035		7/15/77	1729	6:08	370	50.80N	138.41W	-55.	.046	•113	.41
7/15/77				38.79N	149.53E		.008	• 055		7/15/77	1739	6:18	370	50.46N	136.05W	-55.	.011	.040	
7/15/77	1217	0:56	350	39.18N	150.54E	-42.	.016	• 054		7/15/77	1749	6:28	370	50.09N	133.78W	-55.	.006	•075	
7/15/77	1227	1:06	350	39.82N	152.41E	-42.	.032	•179	•18	7/15/77	1759	6:38	370	49.67N	131.57%	-56.	.014	• 066	
7/15/77	1237	1:16	350	40.45N	154.38E	-42.	.030	•083		7/15/77		400		49.32N	129.36W		.033	•150	.22
7/15/77	_	1:21	350	40.75N	155.39E	-43.	.028	•080		7/15/77				49.25N	128.27W		.040	•107	.37
7/15/77				41.60N	158.44E		.097	•252	•38	7/15/77				49.17N	127.15W		.041	•104	.39
7/15/77				41.86N	159.46E		.128	•207	•62	7/15/77				49.06N	126.04W		.030	•083	
7/15/77				42.16N	160.40E		.138	•284	• 49	7/15/77				48.94N	124.93W		.030	•090	
7/15/77		-		42.55N	161.25E		.140	•166	-84	7/15/77				48.66N	122.74W		.015	• 099	
7/15/77		_		42.94N	162.13E		.121	•186	•65	7/15/77				48.55N	120.59W		.006	•048	
7/15/77			-	43.33N	163.02E		.087	•158	•55	7/15/77				48.67N	118.44W		.014	•040	27
7/15/77				44.07N	164.83E		.094	•150	•63	7/15/77				48.75N	116.31W		.138	•370	•37
7/15/77	-, -			45.46N	168.55E 170.47E		.083	•151	•55	7/15/77 7/15/77				48.78N 48.80N	115.22W 112.98W		.135	•166	.81
7/15/77 7/15/77				46.12N 46.46N	171.45E		.148	•270 •450	•55 •38	7/15/77				48.77N	110.74W		•114 •056	•215 •122	.53 .46
7/15/77	_		_	46.80N	172.46E	-	.264	•471	•56	7/15/77				48.71N	108.52W		.043	195	.22
7/15/77	-,			47.13N	173.49E		.284	•511	•56	7/15/77				48.60N	106.34W		.035	• 088	• [ ]
7/15/77	-			47.45N	174.53E		.310	•505	•61	7/15/77				48.52N	104.16W		.046	•096	
7/15/77				48.07N	176.70E		.209	•315	•66	7/15/77				48.32N	103.11w		.048	•270	.18
7/15/77				48.68N	179.00E		.060	•103	•58	7/15/77				48.22N	102.00W		.105	•273	.38
7/15/77				49.12N	178.57W		.034	.046		7/15/77				48.11N	100.90W		.180	•469	38
7/15/77	1502			49.41N	176.12W		.017	•079		7/15/77				47.99N	99.81W		.198	.429	.46
7/15/77	1512	3:51	370	49.65N	173.61W	-51.	.019	•056		7/15/77	2034	9:13	4 Î O	47.71N	97.61W	-58.	.176	• 346	.51
7/15/77	1517	3:56	370	49.75N	172.41W	<b>-</b> 51•	.009	• 045		7/15/77	2044	9:23	410	47.38N	95.40W	-58.	.136	•286	.48
7/15/77	1522	4:01	370	49.83N	171.19W	-51.	.006	• 045		7/15/77	2054	9:33	410	47.02N	93.22W	-60.	.114	•251	.45
7/15/77	1527	4:06	370	49.90N	169.96W	-51.	.000	•034		7/15/77				46.61N	91.06W	-60.	.103	•193	.53
7/15/77				50.61N	164.47W		.000	•039		7/15/77				46.39N	89.98W		.074	•124	.60
7/15/77				50.85N	161.91W		.000	•022		7/15/77				46.19N	88.91W		.047	•138	.34
7/15/77	-		177	51.03N	159.28W		.005	•043		7/15/77				45.98N	87.86W	-	.045	•142	•32
7/15/77	- 13			51.07N	157.95W		.007	•042		7/15/77				45.31N	84.85W		.032	•090	
7/15/77				51.11N	155.18W		.018	•050		7/15/77				44.83N	82.91W		.020	•083	- 4
7/15/77			-	51.04N	151.04W		.026	•290	•09	7/15/77				44.32N	81.01W		.028	•143	.20
7/15/77	_			51.05N	148.46W		.176	• 357	• 49	7/15/77				43.81N	79.24W		.031	•104	.30
7/15/77				51.10N	145.90W		.156	• 365	•43	7/15/77				43.43N	78.47W		.021	•109	.19
7/15/77				51.09N	143.37W		.171	• 350	•49	7/15/77				42.83N	77.23W		.026	•100	16
7/15/77		-		51.07N	142.11W		.156	•246	•63	7/15/77				42.49N	76.42W		.021	•109	.19
7/15/77	1113	5:58	3/0	51.03N	140.84W	-55•	.117	•137	• 85	7/15/77	2221	11:00	411	42-17N	75.62W	-01•	.025	•097	



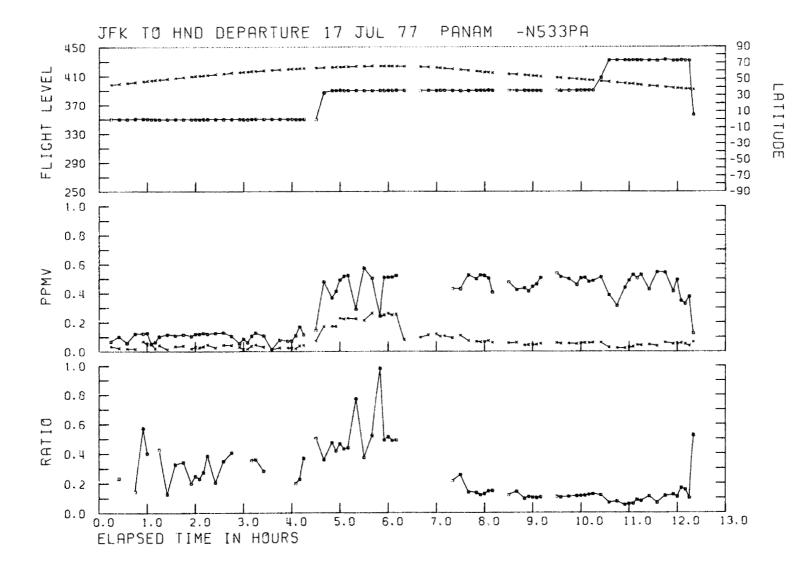
MAXIMUM VALUES: AMBIENT OZONE= .610 CABIN OZONE= .324 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .95 TOTAL OBS IN CABIN: 47 DATA SOURCE: GASP TAPE VL010, FILE 4

7/16/77 0223 0:10 366 41.48N 71.41W -49. 039 102 38 7/16/77 0518 3:05 410 53.22N 39.44W -48. 1195 481 41 7/16/77 0233 0:20 390 42.55N 70.30W -54. 046 089 7/16/77 0528 3:15 410 53.52N 37.11W -47. 1193 523 37 7/16/77 0253 0:40 390 44.39N 69.04W -54. 066 1.00 7/16/77 0588 3:25 410 53.60N 34.64W -46. 224 45 7/16/77 0258 0:45 390 44.82N 66.75W -54. 056 1.03 .54 7/16/77 0588 3:45 410 54.02N 32.18W -47. 235 522 .45 7/16/77 0303 0:50 390 45.24N 65.93W -54. 054 0.04 0.09 7 7/16/77 0583 3:45 410 54.11N 30.93W -46. 236 .522 .45 7/16/77 0313 1:00 390 44.26N 66.73W -54. 059 100 7/16/77 0583 3:45 410 54.12N 30.93W -46. 236 .522 .45 7/16/77 0313 1:00 390 44.26N 64.32W -55. 033 .889 7/16/77 0583 3:45 410 54.19N 29.67W -45. 279 .537 .52 7/16/77 0313 1:00 390 46.06N 64.32W -55. 033 .889 7/16/77 0683 3:55 410 54.24N 28.39W -47. 2288 .540 54.25N 7/16/77 0313 1:00 390 46.06N 64.32W -55. 033 .889 7/16/77 0618 4:55 410 54.25N 27.10W -47. 1.31 .533 .52 7/16/77 0343 1:20 390 46.06N 64.32W -54. 038 .090 7/16/77 0618 4:55 410 54.25N 27.10W -47. 1.31 .533 .54 7/16/77 0353 1:40 390 49.85N 56.51W -53. 0.09 97 7/16/77 0658 4:55 410 54.25N 10.91W -48. 2247 .514 .48 7/16/77 0433 1:50 390 49.85N 56.51W -53. 0.09 .091 7/16/77 0658 4:50 410 54.25N 11.83W -48. 2268 .413 .65 7/16/77 0433 1:50 390 49.85N 56.51W -53. 0.02 .091 7/16/77 078 4:55 410 54.25N 11.83W -48. 2268 .52 .54 7/16/77 0433 2:10 390 51.37N 51.90W -54. 0.038 .106 7/16/77 078 4:55 410 54.25N 11.83W -48. 2270 .529 .54 7/16/77 0433 2:20 410 52.1N 49.94W -54. 0.038 .106 7/16/77 078 4:55 410 54.25N 11.86W -48. 2247 .524 .55 410 7/16/77 0433 2:20 410 52.1N 49.94W -54. 0.038 .106 7/16/77 078 4:55 410 55.99N 11.86W -44. 2284 .527 .54 7/16/77 0433 2:20 410 52.1N 49.94W -54. 0.038 .106 7/16/77 0788 5:55 410 55.99N 11.86W -44. 2294 .610 .48 7/16/77 0433 2:20 410 52.25N 46.52W -54. 0.038 .106 7/16/77 0788 5:50 410 55.99N 11.86W -44. 2294 .610 .48 7/16/77 0433 2:20 410 52.25N 46.52W -54. 0.038 .106 7/16/77 0788 5:50 410 55.99N 11.86W -44. 2294 .610 .48 7/16/77 0433 2:20 410 52.25N 46.52W -54. 0.0		MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(		RATIO
7/16/77 0233 0:30 390 44.39N 69.04W -54. 0061 108 .56 7/16/77 0538 3:25 410 53.80N 34.64W -46. 224 .522 .43 7/16/77 0253 0:40 390 44.39N 67.51W -54. 0.065 100 7/16/77 0548 3:35 410 54.02N 32.18W -47. 235 .522 .45 7/16/77 0303 0:50 390 45.24N 65.93W -54. 0.047 .094 7/16/77 0553 3:40 410 54.11N 30.93W -46. 226 .522 .52 7/16/77 0308 0:55 390 45.66N 65.12W -54. 0.039 .100 7/16/77 0558 3:45 410 54.19N 29.67W -46279 .537 .52 7/16/77 0308 0:55 390 45.66N 65.12W -54. 0.039 .100 7/16/77 0608 3:55 410 54.28N 27.10W -47. 1.31 .533 .25 7/16/77 0333 1:00 390 46.06N 64.32W -55. 0.033 .089 7/16/77 0618 4:05 410 54.28N 27.10W -47. 1.31 .533 .25 7/16/77 0333 1:20 390 47.63N 60.99W -54. 0.033 .100 7/16/77 0618 4:05 410 54.28N 27.10W -47. 1.31 .533 .25 7/16/77 0353 1:30 390 49.10N 57.43W -54. 0.032 .099 7/16/77 0628 4:15 410 54.28N 27.19W -48. 2268 .413 .65 7/16/77 0353 1:40 390 49.10N 57.43W -54. 0.032 .099 7/16/77 0648 4:05 410 54.28N 15.63W -48. 2268 .413 .65 7/16/77 0353 1:45 390 49.45N 56.51W -54. 0.032 .099 7/16/77 0658 4:40 410 54.28N 15.63W -48. 226 .451 4.8 7/16/77 0353 1:45 390 49.45N 56.51W -54. 0.034 .089 7/16/77 0658 4:40 410 54.28N 15.63W -48. 2267 .528 .54 7/16/77 0413 2:00 390 50.59N 53.83W -53. 0.13 .088 7/16/77 0708 4:55 410 54.26N 14.22W -49. 2267 .528 .54 7/16/77 0433 2:20 390 50.59N 53.83W -53. 0.13 .088 7/16/77 0708 4:55 410 54.55N 9.37W -40. 2262 .531 .49 7/16/77 0433 2:20 410 52.1N 49.94W -54. 0.038 .090 7/16/77 0708 4:55 410 54.55N 9.37W -40. 2262 .531 .49 7/16/77 0433 2:20 410 52.1N 49.94W -54. 0.038 .156 .24 7/16/77 0708 5:55 410 55.59N 4.74W -43. 3.13 .558 .55 7/16/77 0443 2:30 410 52.43N 47.68W -55108 .312 .35 7/16/77 0748 5:55 410 55.59N 4.74W -43. 3.33 .558 .55 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0758 5:50 410 55.99N 2.16W -44. 2294 .610 .48 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0808 5:50 410 55.99N 2.16W -44299 .534 .57 7/16/77 0508 2:55 410 53.30N 41.81W -49164 .415 .40 7/16/77 0808 5:50 410 56.00N 5.65E -46299 .534 .57 7/16/77 050		7/16/77	0223	0:10	366	41.48N	71.41W	-49.	.039	•102	•38	7/16/77	0518								
7/16/77 0253 0:40 390 44.39N 67.51N -54. 0.05 100 7/16/77 0548 3:35 410 54.02N 32.18W -47. 235 .522 .45 7/16/77 0258 0:45 390 44.82N 66.73W -54. 0.056 .103 .54 7/16/77 0558 3:40 410 54.19N 30.93W -46. 236 .522 .45 7/16/77 0308 0:55 390 45.66N 65.12W -54. 0.039 .100 7/16/77 0603 3:50 410 54.24N 28.39W -47. 288 .540 .53 7/16/77 0313 1:00 390 46.06N 64.32W -55. 0.033 .089 7/16/77 0618 4:05 410 54.28N 27.10W -47. 131 .533 .25 7/16/77 0323 1:10 390 46.06N 62.66W -54. 0.040 .097 7/16/77 0618 4:05 410 54.28N 27.10W -47. 131 .533 .25 7/16/77 0333 1:20 390 47.63N 60.99W -54. 0.033 .100 7/16/77 0628 4:15 410 54.29N 21.98W -40. 268 .413 .65 7/16/77 0343 1:30 390 48.38N 59.24W -54. 0.032 .099 7/16/77 0648 4:55 410 54.25N 21.98W -48. 268 .413 .65 7/16/77 0358 1:45 390 49.45N 56.51W -54. 0.038 .090 7/16/77 0658 4:40 410 54.25N 15.63W -48. 227 .514 .48 7/16/77 0403 1:50 390 49.45N 56.51W -54. 0.038 .090 7/16/77 0658 4:40 410 54.25N 14.36W -49. 287 .528 .54 7/16/77 0403 1:50 390 50.59N 53.83W -53. 0.029 .091 7/16/77 0708 4:55 410 54.25N 14.36W -49. 287 .528 .54 7/16/77 0433 2:20 390 50.59N 53.83W -53. 0.038 .088 7/16/77 0708 4:55 410 54.25N 14.36W -49. 287 .528 .54 7/16/77 0433 2:20 390 50.59N 53.83W -53. 0.038 .088 7/16/77 0708 4:55 410 55.99N 7.14W -44. 252 .541 .47 7/16/77 0433 2:20 390 50.59N 53.83W -53. 0.03 .088 7/16/77 0708 4:55 410 55.99N 7.14W -44. 252 .541 .47 7/16/77 0433 2:20 390 50.59N 53.83W -53. 0.03 .088 7/16/77 0708 5:50 410 55.99N 7.14W -44. 252 .541 .47 7/16/77 0433 2:20 390 50.59N 53.83W -53. 0.03 .088 7/16/77 0708 5:50 410 55.99N 7.14W -44. 252 .541 .47 7/16/77 0433 2:20 410 52.1N 49.94W -54. 0.038 .156 .24 7/16/77 0708 5:50 410 55.99N 7.14W -44. 252 .541 .47 7/16/77 0458 2:45 410 52.25N 45.52N 45.52W -54. 1.35 .327 .41 7/16/77 0708 5:50 410 55.99N .50E -45. 324 .559 .58 7/16/77 0458 2:45 410 52.93N 47.68W -55. 1.08 .332 .337 .41 7/16/77 0708 5:50 410 55.99N .50E -45. 324 .559 .58 7/16/77 0508 2:55 410 52.93N 43.02W -55. 1.179 .234 .76 7/16/77 0808 5:50 410 56.03N 5.85E -46. 2.299 .472 .61		7/16/77	0233	0:20	390	42.55N	70.30W	-54.	.046	•089		7/16/77	0528	3:15	410	53.52N	37.11W	-47.	.193	•523	.37
7/16/77 0303 0:50 390 45.24N 65.93N -54. 0.047 0.094 7/16/77 0558 3:40 410 54.11N 30.93N -40. 236 .522 .45 7/16/77 0303 0:50 390 45.24N 65.93N -54. 0.047 0.094 7/16/77 0558 3:45 410 54.19N 29.67N -40. 279 .537 .52 7/16/77 0303 0:55 390 45.66N 65.12N -54. 0.039 .100 7/16/77 0603 3:50 410 54.24N 28.39W -47. 288 .540 .53 7/16/77 0313 1:00 390 46.06N 64.32N -55. 033 .089 7/16/77 0608 3:50 410 54.28N 27.10W -47. 131 .533 .25 7/16/77 0323 1:10 390 46.85N 62.66W -54. 0.040 .097 7/16/77 0618 4:05 410 54.28N 27.10W -47. 131 .533 .25 7/16/77 0333 1:20 390 47.63N 60.99W -54. 0.032 .099 7/16/77 0628 4:15 410 54.25N 24.53W -40. 136 .490 .28 7/16/77 0343 1:30 390 48.38N 59.24W -54. 0.032 .099 7/16/77 0648 4:35 410 54.25N 16.91W -48. 2247 .514 .48 7/16/77 0403 1:50 390 49.45N 56.51W -54. 0.038 .090 7/16/77 0653 4:40 410 54.25N 16.91W -48. 2270 .529 .51 7/16/77 0403 1:50 390 49.82N 55.61W -53. 0.029 .091 7/16/77 0708 4:55 410 54.25N 14.22W -49. 2287 .528 .54 7/16/77 0403 2:10 390 50.59N 53.83W -53. 013 .088 7/16/77 0708 4:55 410 54.25N 14.22W -49. 2287 .528 .54 7/16/77 0433 2:20 410 52.11N 49.94W -54. 0.03 .182 .40 7/16/77 0738 5:25 410 55.90N 4.74W -43. 313 .558 .55 7/16/77 0453 2:30 410 52.25N 46.52W -54. 136 .397 .41 7/16/77 0758 5:25 410 55.99N 4.10 55.99N 4.10 55.99N 4.10 55.99N 4.10 55.99N 4.10 55.99N 50.00N 5.00N 7/16/77 0708 5:50 410 55.99N 4.10 55.99N 5.00 .324 .559 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .540 .550 .324 .550 .324 .550 .324 .540 .550 .324		7/16/77	0243	0:30	390	43.53N	69.04W	-54.	.061	•108	•56	7/16/77	0538	3:25	410	53.80N	34.64W	-46.	.224	•522	.43
7/16/77 0303 0:50 390 45.24N 65.3W -54047 .094 7/16/77 0558 3:45 410 54.19N 29.67W -46279 .537 .52 7/16/77 0308 0:55 390 45.66N 65.12W -54039 .100 7/16/77 0603 3:50 410 54.24N 28.39W -47288 .540 .53 7/16/77 0313 1:00 390 46.06N 64.32W -55033 .089 7/16/77 0603 3:50 410 54.24N 28.39W -47131 .533 .25 7/16/77 0323 1:10 390 46.85N 62.66W -54040 .097 7/16/77 0618 4:05 410 54.28N 27.10W -47131 .533 .25 7/16/77 0333 1:20 390 47.63N 60.99W -54040 .097 7/16/77 0628 4:15 410 54.25N 24.53W -46136 .490 .28 7/16/77 0343 1:30 390 48.38N 59.24W -54032 .099 7/16/77 0628 4:15 410 54.25N 16.91W -482270 .529 .51 7/16/77 0453 1:40 390 49.45N 56.51W -54038 .099 7/16/77 0658 4:45 410 54.25N 16.91W -482270 .529 .51 7/16/77 0403 1:50 390 49.45N 56.51W -53029 .091 7/16/77 0708 4:55 410 54.25N 14.32W -49287 .528 .54 7/16/77 0423 2:10 390 50.59N 53.83W -53013 .088 7/16/77 0708 4:55 410 54.55N 9.37W -46262 .531 .49 7/16/77 0433 2:20 410 52.51N 49.94W -54038 .156 .24 7/16/77 0738 5:25 410 55.99N 7.14W -46252 .541 .47 7/16/77 0433 2:20 410 52.57N 46.52W -54038 .156 .24 7/16/77 0738 5:25 410 55.99N 2.16W -43313 .558 .56 7/16/77 0458 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0758 5:40 410 55.99N 2.16W -44294 .610 .48 7/16/77 0453 2:40 410 52.57N 46.52W -54135 .327 .41 7/16/77 0758 5:40 410 55.99N .50E -45324 .559 .58 7/16/77 0458 2:40 410 52.57N 46.52W -54135 .327 .41 7/16/77 0758 5:40 410 55.99N .50E -45324 .559 .58 7/16/77 0458 2:40 410 52.57N 46.52W -54135 .327 .41 7/16/77 0758 5:40 410 55.99N .50E -45324 .559 .58 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0253	0:40	390	44.39N	67.51W	-54.	.065	•100		7/16/77	0548	3:35	410	54.02N	32.18W	-47.	.235	•522	.45
7/16/77 0308 0:55 390 45.66N 65.12W -54. 039 .100 7/16/77 0603 3350 410 54.24N 28.39W -47288 .540 .53 7/16/77 0313 1:00 390 46.06N 64.32W -55. 033 .089 7/16/77 0608 3355 410 54.28N 27.10W -47131 .533 .25 7/16/77 0323 1:10 390 46.06N 62.66W -54. 040 .097 7/16/77 0618 4.05 410 54.28N 27.10W -47131 .533 .25 7/16/77 0333 1:20 390 47.63N 60.99W -54033 .100 7/16/77 0628 4.05 410 54.25N 21.98W -48268 .413 .65 7/16/77 0343 1:30 390 48.38N 59.24W -54032 .099 7/16/77 0648 4.05 410 54.25N 16.91W -48247 .514 .48 7/16/77 0353 1:40 390 49.10N 57.43W -54038 .090 7/16/77 0658 4.05 410 54.25N 16.91W -48270 .529 .51 7/16/77 0403 1:50 390 49.82N 55.61W -53029 .091 7/16/77 0708 4.55 410 54.25N 11.82W -49287 .528 7/16/77 0403 1:50 390 50.59N 53.83W -53013 .088 7/16/77 0708 4.55 410 54.55N 9.37W -46262 .531 .49 7/16/77 0403 2:00 390 50.59N 53.83W -53013 .088 7/16/77 0718 5:05 410 55.59N 7.14W -46252 .541 7/16/77 0433 2:20 410 52.43N 47.68W -55108 .312 .35 7/16/77 0448 2:35 410 52.43N 47.68W -55108 .312 .35 7/16/77 0458 2:40 410 52.43N 47.68W -55108 .312 .35 7/16/77 0453 2:40 410 52.43N 47.68W -55108 .312 .35 7/16/77 0453 2:40 410 52.43N 47.68W -55108 .317 .341 .46 7/16/77 0453 2:40 410 52.82N 44.19W -52157 .341 .46 7/16/77 0458 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40		7/16/77	0258	0:45	390	44.82N	66.73W	-54.	.056	•103	•54	7/16/77	0553				30.93W	-46.	.236	•522	. 45
7/16/77 0313 1:00 390 46.06N 64.32W -55033 .089 7/16/77 0608 3:55 410 54.28N 27.10W -47131 .533 .25 7/16/77 0323 1:10 390 46.85N 62.68W -54040 .097 7/16/77 0618 4:05 410 54.31N 24.53W -46136 .490 .28 7/16/77 0333 1:20 390 47.63N 60.99W -54033 .100 7/16/77 0628 4:15 410 54.29N 21.98W -48268 .413 .65 7/16/77 0343 1:30 390 48.38N 59.24W -54032 .099 7/16/77 0648 4:35 410 54.25N 16.91W -48247 .514 .48 7/16/77 0353 1:40 390 49.10N 57.43W -54038 .090 7/16/77 0653 4:40 410 54.25N 16.91W -48270 .529 .51 7/16/77 0358 1:45 390 49.45N 56.51W -54034 .089 7/16/77 0658 4:45 410 54.25N 14.32W -49287 .528 .54 7/16/77 0403 1:50 390 49.82N 55.61W -53029 .091 7/16/77 0708 4:55 410 54.25N 14.32W -49287 .528 .54 7/16/77 0413 2:00 390 50.59N 53.83W -53013 .088 7/16/77 0718 5:05 410 54.55N 9.37W -46262 .531 .49 7/16/77 0433 2:20 410 52.43N 47.68W -55038 .156 .24 7/16/77 0728 5:15 410 55.95N 7.14W -46252 .541 .47 7/16/77 0433 2:20 410 52.43N 47.68W -55108 .312 .35 7/16/77 0758 5:36 410 55.99N 4.74W -43313 .558 .55 7/16/77 0448 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0758 5:40 410 55.99N .50E -45324 .559 .55 7/16/77 0453 2:40 410 52.93N 45.85W -52136 .397 .34 7/16/77 0758 5:40 410 55.99N .50E -45324 .559 .55 7/16/77 0453 2:40 410 52.93N 45.85W -52136 .397 .34 7/16/77 0758 5:50 410 56.02N 18.82E -46299 .553 .55 7/16/77 0458 2:45 410 52.93N 43.02W -51179 .234 .76 7/16/77 0808 5:50 410 56.00N 5.85E -46289 .472 .61		7/16/77	0303	0:50	390	45.24N	65.93W	-54.	.047	•094		7/16/77	0558	3:45	410	54.19N	29.67W	-46.	.279	•537	•52
7/16/77 0323 1:10 390 46.85N 62.66W -54. 040 .097 7/16/77 0618 4:05 410 54.31N 24.53W -46. 136 .490 .28 7/16/77 0333 1:20 390 47.63N 60.99W -54. 033 .100 7/16/77 0628 4:15 410 54.29N 21.98W -48268 .413 .65 7/16/77 0343 1:30 390 48.88N 59.24W -54. 032 .099 7/16/77 0648 4:55 410 54.25N 16.91W -48247 .514 .48 7/16/77 0353 1:40 390 49.10N 57.43W -54. 038 .090 7/16/77 0653 4:40 410 54.25N 15.63W -48270 .529 .51 7/16/77 0403 1:50 390 49.45N 56.51W -53029 .091 7/16/77 0708 4:55 410 54.25N 11.86W -48284 .527 .54 7/16/77 0413 2:00 390 50.59N 53.83W -53013 .088 7/16/77 0708 4:55 410 54.50N 9.37W -46262 .531 .49 7/16/77 0723 2:10 390 51.59N 51.90W -54038 .156 .24 7/16/77 0728 5:15 410 55.69N 7.14W -46252 .541 .47 7/16/77 0743 2:20 410 52.11N 49.94W -54073 .182 .40 7/16/77 0748 5:25 410 55.69N 7.14W -46255 .541 .47 7/16/77 0748 2:35 410 52.43N 47.66W -55108 .312 .35 7/16/77 0748 5:25 410 55.99N 2.16W -46287 .538 .53 7/16/77 0748 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0758 5:40 410 55.99N 2.16W -46287 .538 .53 7/16/77 0758 2:40 410 52.93N 43.02W -51179 .234 .76 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0308	0:55	390	45.66N	65.12W	-54.	.039	•100		7/16/77	0603	3:50	410	54.24N	28.39W	-47.	,288	•540	•53
7/16/77 0333 1:20 390 47.63N 60.99W -54. 033 .100 7/16/77 0628 4:15 410 54.29N 21.98W -48268 .413 .65 7/16/77 0343 1:30 390 48.38N 59.24W -54. 032 .099 7/16/77 0648 4:55 410 54.25N 16.91W -48247 .514 .48 7/16/77 0358 1:40 390 49.10N 57.43W -54. 038 .090 7/16/77 0658 4:40 410 54.25N 16.91W -48270 .529 .51 7/16/77 0358 1:45 390 49.45N 56.51W -53029 .091 7/16/77 0658 4:45 410 54.25N 14.32W -49270 .529 .54 7/16/77 0403 1:50 390 49.48N 55.61W -53029 .091 7/16/77 0708 4:55 410 54.25N 11.86W -48284 .527 .54 7/16/77 0413 2:00 390 50.59N 53.83W -53013 .088 7/16/77 0708 4:55 410 54.40N 11.86W -48284 .527 .54 7/16/77 0423 2:10 390 51.37N 51.90W -54038 .156 .24 7/16/77 0718 5:05 410 54.55N 9.37W -46262 .531 .49 7/16/77 0433 2:20 410 52.11N 49.94W -54073 .182 .40 7/16/77 0728 5:15 410 55.69N 4.74W -43313 .558 .56 7/16/77 0448 2:35 410 52.43N 47.68W -55108 .312 .35 7/16/77 0748 5:35 410 55.99N 2.16W -44294 .610 .48 7/16/77 0458 2:45 410 52.82N 44.19W -52136 .397 .34 7/16/77 0758 5:40 410 55.99N .50E -45324 .559 .56 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0808 5:50 410 56.00N 5.85E -46299 .534 .57 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0313	1:00	390	46.06N	64.32W	-55•	.033	•089		7/16/77	0608	3:55	410	54.28N	27.10w	-47.	.131	•533	.25
7/16/77 0343 1:30 390 48.38N 59.24W -54. 032 .099 7/16/77 0648 4:35 410 54.25N 16.91W -48247 .514 .48 7/16/77 0353 1:40 390 49.10N 57.43W -54. 038 .090 7/16/77 0653 4:40 410 54.24N 15.63W -48270 .529 .51 7/16/77 0358 1:45 390 49.45N 56.51W -54. 034 .089 7/16/77 0658 4:45 410 54.25N 14.32W -49287 .528 .54 7/16/77 0403 1:50 390 49.82N 55.61W -53. 0.29 .091 7/16/77 0708 4:55 410 54.26N 11.86W -48284 .527 .54 7/16/77 0413 2:00 390 50.59N 53.83W -53. 013 .088 7/16/77 0718 5:05 410 54.55N 9.37W -46262 .531 .49 7/16/77 0423 2:10 390 51.37N 51.90W -54. 038 .156 .24 7/16/77 0728 5:15 410 55.5N 9.37W -46252 .541 .47 7/16/77 0433 2:20 410 52.11N 49.94W -54. 073 .182 .40 7/16/77 0738 5:25 410 55.69N 4.74W -43313 .558 .56 7/16/77 0448 2:35 410 52.43N 47.68W -55108 .312 .35 7/16/77 0748 5:35 410 55.90N 2.16W -46287 .538 .53 7/16/77 0453 2:40 410 52.57N 46.52W -54135 .327 .41 7/16/77 0753 5:40 410 55.99N 2.16W -46287 .538 .53 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0803 5:50 410 56.02N 1.82E -46299 .534 .56 7/16/77 0503 2:50 410 52.93N 43.02W -51179 .234 .76 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0323	1:10	390	46.85N	62.68W	-54.	.040	•097		7/16/77	0618	4:05	410	54.31N	24.53W	-46.	.136	•490	.28
7/16/77 0353 1:40 390 49.10N 57.43W -54038 .090 7/16/77 0653 4:40 410 54.24N 15.63W -48270 .529 .51 7/16/77 0358 1:45 390 49.45N 56.51W -54034 .089 7/16/77 0658 4:45 410 54.25N 14.32W -49287 .528 .54 7/16/77 0403 1:50 390 49.82N 55.61W -53029 .091 7/16/77 0708 4:55 410 54.40N 11.86W -48284 .527 .54 7/16/77 0413 2:00 390 50.59N 53.83W -53013 .088 7/16/77 0718 5:05 410 54.55N 9.37W -40262 .531 .49 7/16/77 0423 2:10 390 51.37N 51.90W -54038 .156 .24 7/16/77 0728 5:15 410 55.19N 7.14W -46252 .541 .47 7/16/77 0433 2:20 410 52.11N 49.94W -54073 .182 .40 7/16/77 0738 5:25 410 55.69N 4.74W -43313 .558 .56 7/16/77 0448 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0758 5:30 410 55.99N 2.16W -44294 .610 .48 7/16/77 0458 2:40 410 52.70N 45.35W -52136 .397 .34 7/16/77 0758 5:40 410 55.99N .50E -45324 .559 .58 7/16/77 0508 2:55 410 52.93N 43.02W -51179 .234 .76 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0333	1:20	390	47.63N	60.99W	-54.	.033	•100		7/16/77	0628	4:15	410	54.29N	21.98W	-48.	.268	•413	.65
7/16/77 0358 1:45 390 49.45N 56.51W -54. 034 089 7/16/77 0658 4:45 410 54.25N 14.32W -49. 287 .528 .54 7/16/77 0403 1:50 390 49.82N 55.61W -53. 0.29 0.91 7/16/77 0708 4:55 410 54.40N 11.86W -48. 284 .527 .54 7/16/77 0413 2:00 390 50.59N 53.83W -53. 013 0.88 7/16/77 0718 5:05 410 54.55N 9.37W -40. 262 .531 .49 7/16/77 0423 2:10 390 51.37N 51.90W -54. 038 .156 .24 7/16/77 0728 5:15 410 55.19N 7.14W -46. 252 .541 .47 7/16/77 0433 2:20 410 52.11N 49.94W -54. 073 .182 .40 7/16/77 0738 5:25 410 55.69N 4.74W -43. 313 .558 .56 7/16/77 0443 2:30 410 52.43N 47.68W -55. 108 .312 .35 7/16/77 0748 5:35 410 55.90N 2.16W -46. 2287 .538 .53 7/16/77 0448 2:35 410 52.57N 46.52W -54. 135 .327 .41 7/16/77 0758 5:40 410 55.99N .84W -44. 294 .610 .48 7/16/77 0458 2:40 410 52.70N 45.35W -52. 136 .397 .34 7/16/77 0758 5:50 410 55.99N .50E -45. 324 .559 .58 7/16/77 0503 2:50 410 52.93N 43.02W -51. 179 .234 .76 7/16/77 0808 5:50 410 56.03N 3.16E -44. 307 .543 .57 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0343	1:30	390	48.38N	59.24W	-54.	.032	•099		7/16/77	0648	4:35	410	54.25N	16.91W	-48.	.247	•514	.48
7/16/77 0403 1:50 390 49.82N 55.61W -53029 .091 7/16/77 0708 4:55 410 54.40N 11.86W -48284 .527 .54 7/16/77 0413 2:00 390 50.59N 53.83W -53013 .088 7/16/77 0718 5:05 410 54.55N 9.37W -46262 .531 .49 7/16/77 0423 2:10 390 51.37N 51.90W -54038 .156 .24 7/16/77 0728 5:15 410 55.19N 7.14W -46252 .541 .47 7/16/77 0433 2:20 410 52.11N 49.94W -54073 .182 .40 7/16/77 0738 5:25 410 55.69N 4.74W -43313 .558 .56 7/16/77 0443 2:30 410 52.43N 47.68W -55108 .312 .35 7/16/77 0748 5:35 410 55.90N 2.16W -46287 .538 .53 7/16/77 0448 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0753 5:40 410 55.99N 2.16W -44294 .610 .48 7/16/77 0453 2:40 410 52.70N 45.35W -52136 .397 .34 7/16/77 0758 5:45 410 55.99N 50E -45324 .559 .58 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0808 5:55 410 56.03N 3.16E -44307 .543 .57 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0353	1:40	390	49.10N	57.43W	-54.	.038	•090		7/16/77	0653	4:40	410	54.24N	15.63W	-48.	.270	•529	.51
7/16/77 0413 2:00 390 50.59N 53.83W -53013 .088 7/16/77 0718 5:05 410 54.55N 9.37W -46262 .531 .49 7/16/77 0423 2:10 390 51.37N 51.90W -54038 .156 .24 7/16/77 0728 5:15 410 55.19N 7.14W -46252 .541 .47 7/16/77 0433 2:20 410 52.11N 49.94W -54073 .182 .40 7/16/77 0738 5:25 410 55.69N 4.74W -43313 .558 .56 7/16/77 0443 2:30 410 52.43N 47.68W -55108 .312 .35 7/16/77 0748 5:35 410 55.90N 2.16W -46287 .538 .53 7/16/77 0448 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0753 5:40 410 55.95N .84W -44294 .610 .48 7/16/77 0453 2:40 410 52.70N 45.35W -52136 .397 .34 7/16/77 0758 5:45 410 55.99N .50E -45324 .559 .58 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0808 5:55 410 56.02N 1.82E -46299 .534 .56 7/16/77 0503 2:50 410 52.93N 43.02W -51179 .234 .76 7/16/77 0808 5:55 410 56.00N 5.85E -46289 .472 .61		7/16/77	0358	1:45	390	49.45N	56.51W	-54.	.034	•089		7/16/77	0658	4:45	410	54.25N	14.32W	-49,	.287	•528	.54
7/16/77 0423 2:10 390 51.37N 51.90W -54038 .156 .24 7/16/77 0728 5:15 410 55.19N 7.14W -46252 .541 .47 7/16/77 0433 2:20 410 52.11N 49.94W -54073 .182 .40 7/16/77 0738 5:25 410 55.69N 4.74W -43313 .558 .56 7/16/77 0443 2:30 410 52.43N 47.68W -55108 .312 .35 7/16/77 0748 5:35 410 55.90N 2.16W -46287 .538 .53 7/16/77 0448 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0753 5:40 410 55.95N .84W -44294 .610 .48 7/16/77 0453 2:40 410 52.70N 45.35W -52136 .397 .34 7/16/77 0758 5:45 410 55.99N .50E -45324 .559 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0808 5:55 410 56.02N 1.82E -46299 .534 .56 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0403	1:50	390	49.82N	55.61W	-53•	.029	•091		7/16/77	0708	4:55	410	54.40N	11.86W	-48.	.284	•527	.54
7/16/77 0433 2:20 410 52.11N 49.94W -54073 .182 .40 7/16/77 0738 5:25 410 55.69N 4.74W -43313 .558 .56 7/16/77 0443 2:30 410 52.43N 47.68W -55108 .312 .35 7/16/77 0748 5:35 410 55.90N 2.16W -46287 .538 .53 7/16/77 0448 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0753 5:40 410 55.95N .84W -44294 .610 .48 7/16/77 0453 2:40 410 52.70N 45.35W -52136 .397 .34 7/16/77 0758 5:45 410 55.99N .50E -45324 .559 .58 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0803 5:50 410 56.02N 1.82E -46299 .534 .56 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0413	2:00	390	50.59N	53.83W	-53•	.013	•088		7/16/77	0718	5:05	410	54.55N	9.37W	-46.	.262	•531	.49
7/16/77 0443 2:30 410 52.43N 47.68W -55108 .312 .35 7/16/77 0748 5:35 410 55.90N 2.16W -46287 .538 .53 7/16/77 0448 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0753 5:40 410 55.95N .84W -44294 .610 .48 7/16/77 0453 2:40 410 52.70N 45.35W -52136 .397 .34 7/16/77 0758 5:45 410 55.99N .50E -45324 .559 .58 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0803 5:50 410 56.02N 1.82E -46299 .534 .56 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0423	2:10	390	51.37N	51.90W	-54.	.038	•156	•24	7/16/77	0728	5:15	410	55.19N	7.14W	-46.	.252	•541	.47
7/16/77 0448 2:35 410 52.57N 46.52W -54135 .327 .41 7/16/77 0753 5:40 410 55.95N .84W -44294 .610 .48 7/16/77 0453 2:40 410 52.70N 45.35W -52136 .397 .34 7/16/77 0758 5:40 410 55.99N .50E -45324 .559 .58 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0803 5:50 410 56.02N 1.82E -46299 .534 .56 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0433	2:20	410	52.11N	49.94W	-54.	.073	•182	•40	7/16/77	0738	5:25	410	55.69N	4.74W	-43.	.313	•558	.56
7/16/77 0453 2:40 410 52.70N 45.35W -52136 .397 .34 7/16/77 0758 5:45 410 55.99N .50E -45324 .559 .58 7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0803 5:50 410 56.02N 1.82E -46299 .534 .56 7/16/77 0503 2:50 410 52.93N 43.02W -51179 .234 .76 7/16/77 0808 5:55 410 56.03N 3.16E -44307 .543 .57 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0443	2:30	410	52.43N	47.68W	-55•	.108	•312	• 35	7/16/77	0748	5:35	410	55.90N	2.16W	-46.	.287	•538	.53
7/16/77 0458 2:45 410 52.82N 44.19W -52157 .341 .46 7/16/77 0803 5:50 410 56.02N 1.82E -46299 .534 .56 7/16/77 0503 2:50 410 52.93N 43.02W -51179 .234 .76 7/16/77 0808 5:55 410 56.03N 3.16E -44307 .543 .57 7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0448	2:35	410	52.57N	46.52W	-54.	.135	• 327	-41	7/16/77	0753	5:40	410	55.95N	.84W	-44.	.294	•610	.48
7/16/77 0503 2:50 410 52.93N 43.02W -51179 .234 .76 7/16/77 0808 5:55 410 56.03N 3.16E -44307 .543 .57		7/16/77	0453	2:40	410	52.70N	45.35W	-52•	.136	•397	•34	7/16/77	0758	5:45	410	55.99N	•50E	-45.	.324	•559	.58
7/16/77 0508 2:55 410 53.03N 41.81W -49164 .415 .40 7/16/77 0818 6:05 410 56.00N 5.85E -46289 .472 .61		7/16/77	0458	2:45	410	52.82N	44.19W	-52•	.157	•341	• 46	7/16/77	0803	5:50	410	56.02N	1.82E	-46.	.299	•534	.56
		7/16/77	0503	2:50	410	52.93N	43.02W	-51.	.179	•234	•76						3.16E	-44.	.307	•543	•57
7/16/77 0828 6:15 410 55.99N 8.52E -49189 .200 .95	2	7/16/77	0508	2:55	410	53.03N	41.81W	-49.	.164	•415	•40	7/16/77	0818	6:05	410	56.00N	5.85E	-46.	.289	•472	.61
	<u> </u>											7/16/77	0828	6:15	410	55.99N	8.52E	-49.	.189	•200	.95



MAXIMUM VALUES: AMBIENT OZONE= .612 CABIN OZONE= .398 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.36 TOTAL OBS IN CABIN: 52 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
7/16/77	1120	0:10	351	56.92N	10.34E	-54.	.093	• 258	•36	7/16/77	1450	3:40	391	60.98N	45.72W	-54.	.201	•368	.55
7/16/77	1130	0:20	351	57.79N	8.57E	-55•		.209		7/16/77	1500	3:50	391	60.47N	48.03W	-53.	.172	•337	.51
7/16/77	1140	0:30	351	58.59N	6.50E	-56.	.055	•110	•50	7/16/77	1505	3:55	391	60.20N	49.20W	-51.	.223	.399	.56
7/16/77	1145	0:35	351	58.94N	5.31E	<b>-</b> 55•	.063	•119	•53	7/16/77	1510	4:00	391	59.91N	50.34W	-49.	.248	•434	.57
7/16/77	1155	0:45	351	59.37N	2.59E	-53.	.127	•224	•57	7/16/77	1515	4:05	391	59.60N	51.42W	-49.	.288	• 497	.58
7/16/77	1200	0:50	350	59.57N	1.24E	-51.	.188	•379	•50	7/16/77	1520		_	59.27N	52.51W	-48.	.307	• 364	.84
7/16/77	1210	1:00	370	59.93N	1.50W	-47.	.285	•489	•58	7/16/77	1530	4:20	391	58.60N	54.62W	-45.	.243	•407	.60
7/16/77	1215	1:05	370	60.28N	2.72W	-48.	.292	•489	•60	7/16/77	1540	4:30	391	57.88N	56.69W	-45.	.297	•501	•59
7/16/77	1225	1:15	370	60.94N	5.22W	-48.	.305	•480	•64	7/16/77	1550	4:40	391	57.09N	58.59W	-44.	.292	•443	.60
7/16/77	1235	1:25	370	61.53N	7.76W	-47.	.326	•489	•67	7/16/77	1600	4:50	391	55.97N	59.72W	-46.	.225	•502	.45
7/16/77	1245	1:35	371	62.05N	10.39W	-46.	.313	•490	•64	7/16/77	1605	4:55	391	55.41N	60.29W	-43.	.222	•381	.58
7/16/77	1255	1:45	370	62.41N	13.22W	-44.	.331	•522	•63	7/16/77	1610	5:00	391	55.02N	61.17W	-43.	.200	•288	•69
7/16/77	1300	1:50	370	62.56N	14.62W	-43.	•331	•532	•62	7/16/77	1615	5:05	390	54.52N	61.85W	-46.	.224	•339	.66
7/16/77	1305	1:55	370	62.70N	16.07W	-42.	.341	•553	•62	7/16/77	1620	5:10	391	53.97N	62.41W	-47.	.231	•492	.47
7/16/77	1310	2:00	370	62.82N	17.50W	-42.	.365	•549	•66	7/16/77	1625	5: Ī5	391	53.42N	62.94W	-48.	.285	•525	.54
7/16/77	1315	2:05	370	62.93N	18.98W	-42.	.346	•524	•66	7/16/77	1635	5:25	<b>391</b>	52.33N	63.97W	-48.	.283	•545	.52
7/16/77	1325	2:15	370	63.05N	21.89W	-41.	•339	•515	•66	7/16/77	1645	5:35	391	51.23N	64.94W	-52.	.312	•516	.60
7/16/77	1335	2:25	390	63.09N	24.90W	-41.	.379	•589	•64	7/16/77	1655	5:45	391	50.13N	65.87W	-53.	.293	•517	.57
7/16/77	1345	2:35	391	63.06N	27.96W	-40 •	.367	•593	•62	7/16/77	1705	5:55	391	49.00N	66.76W	-56.	.232	•171	1.36
7/16/77	1350	2:40	391	63.02N	29.44W	-41.	.382	•598	•64	7/16/77	1710	6:00	391	48.45N	67.18W	-56.	•128	•153	.84
7/16/77		2:50	391	62.83N	32.39W	-42.	.398	•610	•65	7/16/77	1715		_	47.90N	67.60W	-56.	.094	•164	.57
7/16/77	1405	2:55	391	62.71N	33.85W	-42•	.385	•612	•63	7/16/77	1720	6:10	391	47.33N	68.01W	-56.	.090	•136	•66
7/16/77		3:00	391	62.57N	35.28W	-43.	.376	•571	•66	7/16/77				46.76N	68.42W	-57.	.097	• 223	.43
7/16/77				62.42N	36.70W		.386	•529	•73	7/16/77				45.61N	69.20W		•058	•079	
7/16/77				62.25N	38.09W	-46.	.324	•523	•62	7/16/77	-			44.47N	69.99W		.044	•097	
7/16/77	1430	3:20	391	61.8AN	40.78W	-48•	.278	•518	•54	7/16/77	-	* * *		43.31N	70.81W		.052	• 094	
										7/16/77	1805	6:55	390	42.12N	71.63W	-57.	.059	•108	-55



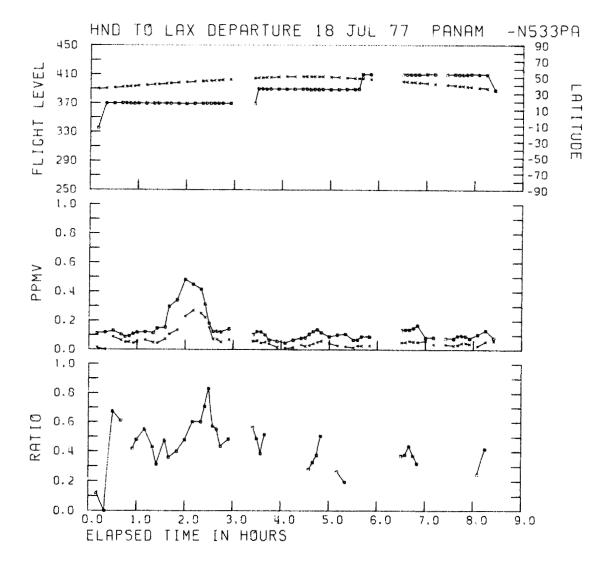
MAXIMUM VALUES: AMBIENT OZONE= .572 CABIN OZONE= .263 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .98 TOTAL OBS IN CABIN: 94
DATA SOURCE: GASP TAPE VL010, FILE 4

			====			1.0110	T =0	070057	DDuu1	DATIO	MOZNAZYR	GMT	ETIM	E.	LAT	LONG	TEMP	OZONE (	DPMV)	PATIO
	MOVDAVYR	GMI	HR:MN	۴L	LAT	LONG	(C)	OZONE (	AMB.	KAIIO	MOZOAZIK	GMT	HŘ:MN	, ,	LAI	20140	(C)	CABIN	AMB.	NA 1-0
			,,,,,,,,,,						, , ,											. 0
	7/17/77		-		43.40N	76.12W		.035	•070		7/17/77				66.33N	147.84W		.251	•512	.49
	7/17/77		-		44.59N	76.93W		.024	•102	•24	7/17/77				66.24N	149.57W		•257	•522	.49
	7/17/77				45.61N	77.99W		.020	• 058	1.6	7/17/77				66.02N 65.36N	152.95W 159.42W		.081 .098		
	7/17/77	_	•		46.61N	79.08W		.018	•123	•15	7/ <sub>1</sub> 7/77 7/ <sub>1</sub> 7/77				64.93N	162.50W		.114		
	7/17/77				47.63N	80.25W		.071	•124	•57 •40	7/17/77				64.41N	165.48W		.120		
	7/17/77		-		48.14N	80.86W		.051 .055	•127 •053	• 40	7/17/77				63.97N	166.69W		.104		
	7/17/77 7/17/77		-		48.64N 49.11N	81.46W 82.06W	_	.022	•064		7/17/77				63.52N	167.87W		.108		8
	7/17/77				49.60N	82.64W	_	.044	•103	•43	7/18/77			-	62.60N	170.12W		.094	•432	.22
	7/17/77				50.66N	83.66W		.015	•117	•13	7/18/77				61.68N	172.24W		.111	•430	.26
	7/17/77				51.68N	84.70W		036	•110	-33	7/18/77				60.72N	174.27W		.074	.525	.148
	7/17/77	_			52.66N	85.76W		.040	•117	•34	7/18/77		7:50	390	59.73N	176.18W	-49.	.068	•499	.148
	7/17/77	_	_		53.61N	86.83W		.021	•105	.20	7/18/77		7:55	390	59.21N	177.10W	-49.	.064	•525	.14B
	7/17/77				54.07N	87.38W		.030	.120	•25	7/18/77	0040	8:00	390	58.69N	177.99W	-48.	.067	•521	.13B
	7/17/77				54.53N	87.94W		.028	.121	•23	7/18/77	0045	8:05	390	58.17N	178.87W	-48.	.074	•504	.15B
	7/17/77	1850	2:10	350	54.98N	88.51W	-53•	.035	•127	• 28	7/18/77	0050			57.64N	179.70W		.061	•408	•12B
	7/17/77	1855	2:15	350	55.43N	89.09W	-53•	.047	•122	•39	7/18/77	0110		,	56.26N	176.07E		.058	•476	.128
	7/17/77	1905	2:25	350	56.33N	90.31W	-54•	.026	•126		7/18/77				55.56N	174.04E		.061	• 425	.14B
	7/17/77	1915	2:35	350	57.20N	91.60W		.045	•129	• 35	7/18/77				54.83N	172.07E		.042	•436	.10B
	7/17/77				58.07N	92.97W		.043	•106	-41	7/18/77				54.45N	171.10E			•415	.118
	7/17/77	-			58.85N	94.57W		.032	• 056		7/18/77				54.07N	170.16E		.046	• 446	.10B
•	7/17/77				59.13N	95.54W		.016	•087		7/18/77				53.73N 53.38N	169.17£		•047 •054	•462 •508	.11B
A-34F	7/17/77		-		59.47N	96.46W		.018	•062	26	7/18/77 7/18/77				51.92N	164.32E		.059	•539	.11B
Ή	7/17/77		_		59.81N	97.40W		.038	•107 •128		7/18/77				51.54N	163.41E			•514	118
	7/17/77 7/17/77	_			60.14N 60.81N	98.40W		.031	•109	•28	7/18/77				50.75N	161.61E			•500	.118
	7/17/77				61.46N	100.49W		.018	•015	• 20	7/18/77				50.00N	160.00£			• 458	118
	7/17/77		-		62.07N	105.05W		.026	•079		7/18/77	_			49.51N	159.02E			•505	.11B
	7/17/77	_	-		62.64N	107.47W		.026	•072		7/18/77				49.06N	158.17E			•508	.128
	7/17/77		_		62.91N	108.73W		.023	.073		7/18/77		10:10	390	48.63N	157.36E	-44.	.059	•479	.128
	7/17/77				63.16N	110.00W		.022	•110	.20	7/18/17	0255	10:15	390	48.18N	156.56E	-44.	.061	• 485	.138
	7/17/77				63.41N	111.29W	-57.	.039	•171	.23	7/18/77	0305	10:25	408	41.30N	155.04E	-46.	.061	•512	.12B
	7/17/77	_	4:15	350	63.65N	112.63W	-58•	.043	•117	•37	7/18/77.				46.39N	153.55E			• 389	.07B
	7/17/77	2110	4:30	350	64.29N	116.81W	<del>-</del> 57•	.074	•147	•50	7/18/77	_			45.47N	152.13E			•315	.088
	7/17/77	2120	4:40	387	64.66N	119.75W	-46.	.171	•478		7/18/77				44.53N	150.75E			•439	.05B
	7/17/77	2130	4:50	390	64.98N	122.91W	-47.	.174	•368		7/18/77		- ;		44.06N	150.08£			• 488	.06B
	7/17/77	2135	4:55	390	65.11N	124.50W		.172	•413		7/18/77				44.04N	150.068			•528	.06B
	7/17/77	-			65.22N	126.10W		.228	•491	• 46	7/18/77		- ; ,	_	43.14N	148.77E			•504	.09B
	7/17/77	_ ,	-	_	65.39N	127.67W		at a	•517		7/18/77				42.68N	148.13E			•528 •53	
	7/17/77				65.59N	129.26W			•523		7/18/77				41.77N	146.928			•427 •546	
	7/17/77		_		65.92N	132.48W		.224	•290		7/18/77		-, -		40.88N	145.78E		-	•543	
	7/17/77				66.19N	135.80W		.214	•572		7/18/77				39.96N	144.63E 143.53E			•414	
	7/17/77			_	66.39N	139.19W		.263	•503		7/18/77				39.08N 38.65N	143.53E			•414	
	7/17/77		_		66.47N	142.65W		•241 351	• 245		7/18/77 7/18/77				38.21N	142.486			•348	
	7/17/77	-			66.44N	144.39W			•509		7/18/77		· · · · ·		37.78N	141.975			•328	
	7/17/77	2240	6:00	390	66.39N	146.12W	-45•	.262	•510	•21	17 [0/11	0750	12-10	431	5141011		276	• • • •	• • • •	•••

MAXIMUM VALUES: AMBIENT OZONE= .572 CABIN OZONE= .263 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .98 TOTAL OBS IN CABIN: 94 DATA SOURCE: GASP TAPE VL010, FILE 4

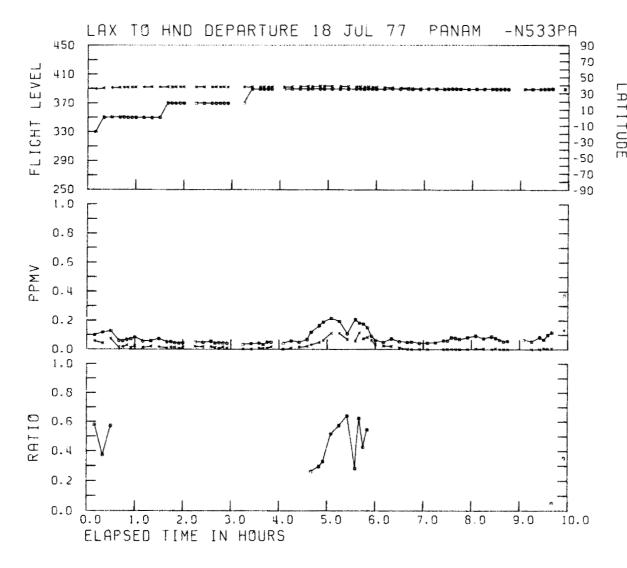
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZUNE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB. (C) CABIN AMB.

7/18/77 0455 12:15 431 37.43N 141.41E +61. .038 .377 .10B 7/18/77 0500 12:20 356 37.02N 140.88E -49. .066 .126 .52



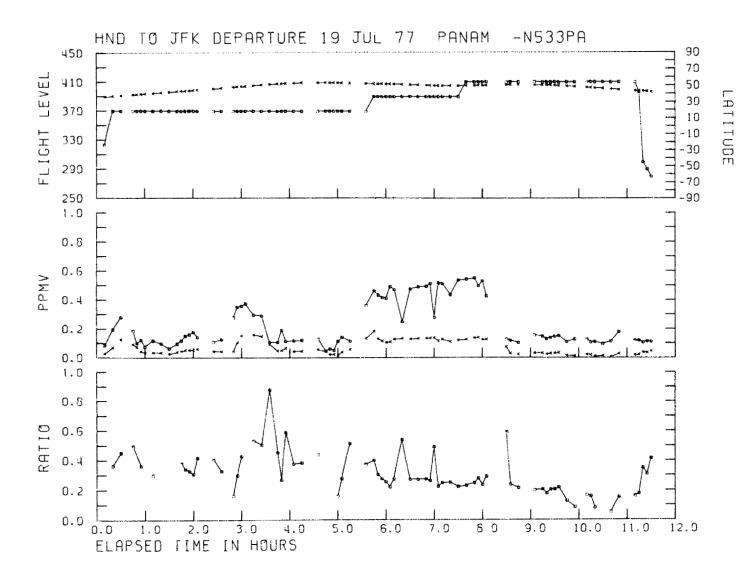
MAXIMUM VALUES: AMBIENT OZONE= .483 CABIN OZONE= .270 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .83 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL010, FILE 4

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HŘÎMN	FL	LAT	LONG		OZONE (		RATIO
	7/18/77				35.77N	142.95E		.014	•114	•12	7/18/77		41 100 1 100		51.02N	167.65W		•015	•067	
	7/18/77				36.56N	144.53E		.000	•119	• 0 0	7/18/77				51.07N	165.26W		.033	•080	
	7/18/77				37.33N	146.16E		.088	•131	•67	7/18/77				51.07N	164.06W		.023	•082	
	7/18/77		•		38.09N	147.86E		.064	•105	•61	7/18/77				51.06N	162.84W		.030	•107	.28
	7/18/77				38.47N	148.74E		.052	•089		7/18/77	-			51.04N	161.64W		.041	•126	.33
	7/18/77		-		38.84N	149.63E		.054	•093		7/18/77	1159			51.01N	160.43W	-59.	.052	•139	.37
	7/18/77	1989			39.23N	150.51E		.046	•110	•42	7/18/77				50.88N	159.24W	~58.	.060	•119	.50
	7/18/77	0811	1:00	370	39.63N	151.36E	-52•	.057	•119	• 48	7/18/77	1214	5:03	389	50.48N	156.85W	-59.	.045	.090	
	7/18/77	0821	1:10	369	40.40N	153.14E	-52•	.067	•122	•55	7/18/77	1224	5:13	389	50.03N	154.54W	-59.	.027	.102	.26
	7/18/77	0831	1:20	370	41.16N	154.98E	-52•	.049	•114	•43	7/18/77	1234	5:23	389	49.53N	152.19W	-58.	.021	.108	.19
	7/18/77	0836	1:25	370	41.53N	155.93E	<del>-</del> 53•	.046	•147	•31	7/18/77	1244	5:33	389	48.96N	149.85W	-58.	.013	.068	
	7/18/77	0846	1:35	370	42.26N	157.89E	-54.	.073	• 154	•47	7/18/77	1249	5:38	389	48.68N	148.70W	-57.	.027	•069	
	7/18/77	0854	1:43	370	42.82N	159.47E	-54.	.107	.297	•36	7/18/77	1254	5:43	410	48.38N	147.56W	-58.	.026	•091	
	7/18/77	0904	1:53	370	43.51N	161.46E	-52•	.136	•341	• 4 0	7/18/77	1304	5:53	410	47.76N	145.38W	~58.	.028	•091	
	7/18/77	0914	2:03	369	44.16N	163.44E	-49.	.231	•483	•48	7/18/77	1344	6:33	410	44.94N	136.99W	-54.	.051	•137	.37
	7/18/77	0924	2:13	369	44.77N	165.43E	-47.	.270	• 449	•60	7/18/77	1349	6:38	410	44.57N	136.00W	-54.	.053	.140	.38
	7/18/77	0934	2:23	370	45.34N	167.43E	<b>-51</b> •	.250	•416	•60	7/18/77	1354	6:43	410	44.18N	135.02W	-54.	.061	.140	.44
	7/18/77	0939	2:28	370	45.61N	168.46E	-55•	.222	•314	•71	7/18/77	1359	6:48	410	43.80N	134.06W	-54.	.056	•150	.37
	7/18/77	0944	2:33	370	45.88N	169.50E	<b>~57</b> •	.152	•183	•83	7/18/77	1404	6:53	410	43.40N	133.13W	-54.	.054	.169	.32
	7/18/77	0949	2:38	370	46.19N	170.53E	-57.	.072	•126	•57	7/18/77	1414	7:03	410	42.60N	131.29W		.062	•085	• -
	7/18/77	0954	2:43	370	46.54N	171.52E	-57.	.070	•127	•55	7/18/77	1424	7:13	410	41.80N	129.53W	<b>-</b> 58∙	.037	•086	
	7/18/77	0959	2:48	370	46.88N	172.53E	-57.	.053	•122	•43	7/18/77	1439	7:28	409	40.69N	127.06W	-60.	.036	.080	
<b>P</b> .	7/18/77	1009	2:58	369	47.52N	174.55E	-58.	.069	•143	•48	7/18/77	1449	7:38	410	39.86N	125.64W	-59.	.028	•078	
3	7/18/77	1039	3:28	370	49.24N	179.03W	-56.	.059	-105	•56	7/18/77	1454	7:43	409	39.40N	125.01W	-60.	.032	•096	
-	7/18/77	1044	3:33	390	49.49N	177.96W	-61.	.061	•125	•49	7/18/77	1459	7:48	409	38.93N	124.38W	-60.	.046	•099	
	7/18/77	1049	3:38	390	49.74N	176.84W	-61.	.048	•124	•39	7/18/77	1504	7:53	410	38.45N	123.76W	-59.	.047	.094	
	7/18/77	1054	3:43	389	49.98N	175.73W		.053	•103	•51	7/18/77				37.95N	123.13W		.040	•079	
	7/18/77	1059			50.21N	174.60W		.042	•068	-	7/18/77	_			37.02N	121.97W		.026	•105	. 25
	7/18/77				50.63N	172.29W		.016	• 059		7/18/77			-	36.10N	120.86W		.056	•134	42
	7/18/77		-		50.99N	170.02W		.010	•047		7/18/77					119.78W		.060	•082	▼ . =



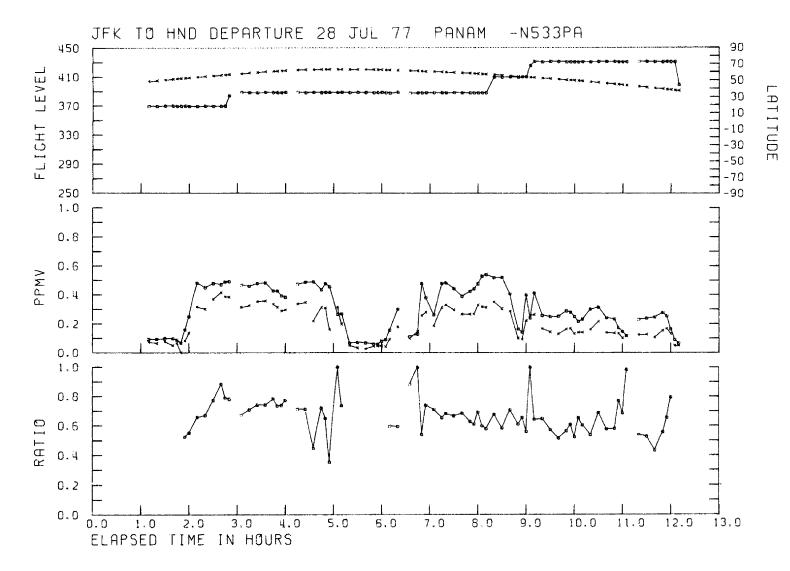
MAXIMUM VALUES: AMBIENT OZONE= .374 CABIN OZONE= .132 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .64 TOTAL OBS IN CABIN: 71 DATA SOURCE: GASP TAPE VL010, FILE 4

						*														
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
																			- •	
	7/18/77				35.55N	120.46W		.058	•100		7/19/77				38.89N	171.65W		.111	•215	.52
	7/18/77				36.71N	121.58W		.044	•118	• 37	7/19/77				38.76N	173.39W		•111	•194	.57
	7/18/77				37.24N	123.16W		.073	•128	•57	7/19/77				38.60N	175.12W		.069	-108	.64
	7/18/77		-		37.47N	124.85W		.015	•062		7/19/77				38.41N	176.85W		.058	•206	.28
	7/18/77				37.57N	125.70W		.017	• 059		7/19/77				38.31N	177.71W		.114	•183	•62
	7/18/77			_	37.67N	126.55W		.029	•068		7/19/77				38.20N	178.57W		.075	•176	.43
	7/18/77	_			37.76N	127.39W		.013	•072		7/19/77				38.08N	179.42W		.083	•152	.55
	7/18/77				37.84N	128.24W		.024	•083		7/19/77			-	37.96N	179.73E		.064	•091	
	7/18/77				37.99N	129.92W		.014	•058		7/19/77				37.82N	178.90E		.031	•064	
	7/18/77				38.U6N	131.73W		.020	• 059		7/19/77				37.54N	177.26E		.024	•049	
	7/18/77		_		38.09N	133.45W		.017	•073		7/19/77				37.24N	175.63E		.021	•073	
	7/18/77				38.10N	135.20W		.007	• 052		7/19/77				36.92N	174.03E		.011	• 054	В
	7/18/77		-		38.10N	136.07W		.015	• 053		7/19/77		***		36.58N	172.46E		.000	•049	В
	7/18/77		_		38.09N	136.93W		.013	•045		7/19/77				36.40N	171.68E		.000	•051	В
	7/18/77		_		38.07N	137.80W		.007	•043		7/19/77			_	36.03N	170.14E		.000	•042	В
	7/18/77				38.05N	138.66W		.012	• 045		7/19/77				35.91N	168.58E		.000	• 044	в
	7/18/77		-		38.05N	141.27W		.020	• 051		7/19/77				35.79N	167.02E			• 047	
	7/18/77				38.09N	143.01W		.017	• 048		7/19/77				35.65N	165.46E	_	.000	•061	В
	7/18/77	_	-		38.10N	144.73W		.017	• 056		7/19/77			_	35.57N	164.68E		.000	• 059	В
	7/18/77		_		38.10N	145.61W		.011	•043		7/19/77				35.49N	163.89E		.001	•082	В
	7/18/77				38.10N	146.48W		.007	• 045		7/19/77				35.40N	163.12E		.000	•078	8
_	7/18/77				38.08N	147.36W		.015	•044		7/19/77				35.31N	162.36E		.000	•071	В
A-35	7/18/77		_		38.06N	148.24W		.009	•042		7/19/77				35.12N	160.88E		.001	•083	8
5	7/18/77				38.U6N	151.85W		.002	•034		7/19/77				35.02N	159.39E		.004	• 094	В
	7/18/77				38.10N	153.67W		.000	•039		7/19/77				35.07N	157.87E		•004	• 075	В
	7/18/77	_	-		38.10N	155.46W		.007	•043		7/19/77				35.09N	156.34E		.001	•088	8
	7/19/77				38.10N	156.36W		.005	•033		7/19/77	_			35.10N	155.57E		.006	•078	В
	7/19/77		_		38.08N	157.24W		.008	•050		7/19/77		the state of		35.10N	154.81E		.000	• 066	В
	7/19/77				38.06N	158.13W		.017	•050		7/19/77				35.10N	154.05E		.000	• 054	В
	7/19/77				38.11N	160.81W		.001	• 044		7/19/77				35.09N	153.29E		•000	•057	В
	7/19/77		4:15	389	38.34N	162.60W	-60•	.008	• 059		7/19/77				35.01N	150.37E			• 066	
	7/19/77				38.55N	164.40W		.015	• 049		7/19/77				35.08N	148.95E		.000	• 054	₿
	7/19/77				38.72N	166.22W		.021	•068		7/19/77				35.18N	147.56E		.000	•084	В
	7/19/77				38.80N	167.13W	-58•	.031	•118	•26	7/19/77				35.22N	146.86E		•007	•068	В
	7/19/77	0112		_	38.94N	168.96W	-57.	.048	•163	•29	7/19/77	0557			35.26N	146.16E	-57.	.004	• 099	8
	7/19/77	0117	4:55	389	38.99N	169.87W	<b>-</b> 56•	.062	•188	•33	7/19/77				35.29N	145.47E		.006	•116	.05B
											7/19/77	0617	9:55	389	35.37N	143.31E	-55.	.132	•374	. 35



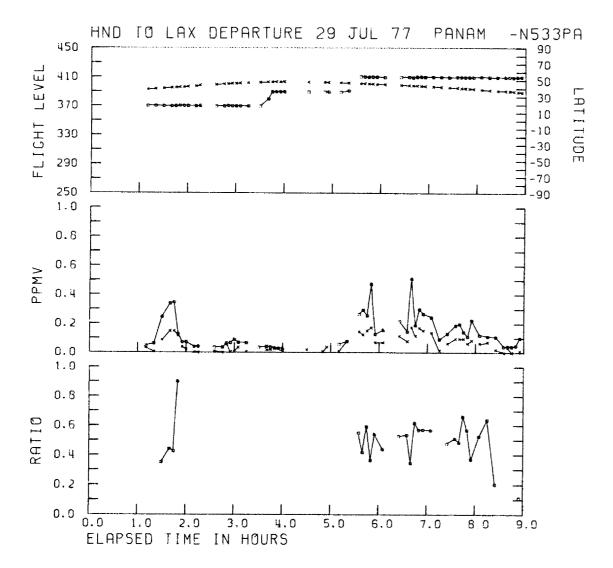
MAXIMUM VALUES: AMBIENT OZONE= .552 CABIN OZONE= .184 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .88 TOTAL OBS IN CABIN: 80 DATA SOURCE: GASP TAPE VL010, FILE 4

М	O/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	CABIN OZONE(	PPMV) AMB•	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	CABIN OZONE (	¤PMV) AMB∙	RATIO
	7/19/77	0854	0:10	323	35.50N	142.55E	-42.	.028	•085		7/19/77	1439	5:55	390	51.55N	144.76W	-48.	.115	.417	.288
	7/19/77	-			36.32N	143.92E		.070	•193	•36	7/19/77				51.44N	143.58W		.105	•412	25B
	7/19/77	-			37.04N	145.48E		.125	.278	• 45	7/19/77		6:05	390	51.30N	142.41W	-48.	.109	•492	.22B
	7/19/77	0929	0:45	370	38.11N	147.96E	-52.	.092	-186	•49	7/19/77	1454	6:10	390	51.16N	141.24W	-49.	.128	•471	.278
	7/19/77	0934	0:50	370	38.47N	148.84E	-54.	.074	•099		7/19/77	1504	6:20	390	50.88N	138.95W	-49.	.134	.249	.54B
	7/19/77	0939	0:55	370	38.83N	149.75E	-54.	.044	.121	•36	7/19/77	1514	6:30	390	50.58N	136.72W	-50.	.129	•475	.278
	7/19/77	0944	1:00	370	39.13N	150.70E	-54.	.032	.075		7/19/77	1524	6:40	390	50.26N	134.57W	-50.	.133	•491	.278
	7/19/77	.0954	1:10	370	39.96N	152.50E	-54.	.035	•117	•30	7/19/77	1534	6:50	390	49.88N	132.42W	-51.	.135	•494	.278
	7/19/77	1004	1:20	370	40.74N	154.32E	-54.	.033	• 096		7/19/77	1539	6:55	390	49.69N	131.37W	-51.	.135	•513	.268
	7/19/77	_			41.50N	156.18E		.026	•063		7/19/77				49.48N	130.32W		.137	.279	.49B
	7/19/77	1024	-		42.23N	158.10E		.038	• 095		7/19/77		7:05	390	49.38N	129.24W	-51.	•116	•518	.22B
	7/19/77				42.57N	159.03E		.044	•116	• 38	7/19/77				49.32N	128.14W		.127	•514	.258
	7/19/77				42.90N	159.99E		.051	•150	•34	7/19/77				49.16N	125.95W		.110	•437	.25B
	7/19/77	-			43.32N	160.90E		.052	•159	•33	7/19/77				49.28N	123.73W		.120	•537	.228
	7/19/77				43.73N	161.82E		.054	•176	•31	7/19/77				49.44N	121.45W		.126	•545	.238
	7/19/77	_			44.13N	162.76E		.059	•142		7/19/77		4 - 1	-	49.58N	119.15W		•137	•552	.258
	7/19/77				45.67N	166.61E		.044	•109	• 4 0	7/19/77				49.63N	117.99W		.139	•499	.288
	7/19/77				46.38N	168.57E		.041	•125	•33	7/19/77				49.67N	116.83W		.125	•531	.248
	7/19/77				47.57N	171.51E		.045	•278	•16	7/19/77				49.72N	115.65W		.125	•427	.298
	7/19/77			_	48.00N	172.46E		.104	• 349	•30	7/19/77				50.24N	109.53W		.074	•125	.598
	7/19/77		_	-	48.41N	173.41E		.152	• 356	•43	7/19/77				50.47N	107.31W		.028	•118	.248
	7/19/77	-	-		48.81N	174.38E		167	•372	E 2	7/19/77				50.46N	104.90W		.022	•102	.228
w	7/19/77 7/19/77				49.62N	176.43E		•157 •146	•295	•53	7/19/77				50.27N	100.00W		.031	•155	.208
	7/19/77				50.37N 51.06N	178.50E 179.34W		.093	•289 •106	•51 •88	7/19/77 7/19/77				50.29N 50.25N	97.53W 96.34W		.030 .023	•146	.21B
	7/19/77				51.67N	177.05W		.048	•106	• 45	7/19/77	_			50.09N	95.16W			•129	.208
	7/19/77		-	_	51.92N	175.88W		.051	•190	•27	7/19/77				49.76N	94.12W		•028 •030	•138 •146	.218
	7/19/77		_	-	52.15N	174.67W	_	.067	•114	•59	7/19/77				49.45N	93.06W		•030	•151	.228
	7/19/77	-			52.56N	172.27W		.044	•117	•38	7/19/77				48.90N	90.94W		.014	•109	.138
	7/19/77				52.90N	169.83W		.046	•120	•38	7/19/77				48.32N	88.95W		.011	.127	.098
	7/19/77	-			53.01N	164.77W		.057	•130	• 44	7/19/77	_			47.34N	86.12W	-	.021	.126	,17B
	7/19/77				52.98N	162.21W		.042	•047	• • •	7/19/77				46.99N	85.20W		.017	•107	16B
	7/19/77	_			52.94N	160.92W		.021	•061		7/19/77		- ·		46.65N	84.31W		.009	•109	088
	7/19/77	_ ,			52.89N	159.63W		.021	•051		7/19/77				46.18N	83.29W		.012	•095	8
	7/19/77	-			52.80N	158.33W		.018	•113	•16	7/19/77		_		45.36N	81.70W		.006	•112	.058
	7/19/77	_			52.71N	157.04W		.039	•142	•27	7/19/77		T .		44.50N	80.15W		.027	•177	.158
	7/19/77	_			52.48N	154.51W		.059	•115	•51	7/19/77		_		43.38N	76.61W		.019	•119	168
	7/19/77				51.91N	149.54W		.135	• 362	•37	7/19/77		7		43.14N	75.70W		.021	•119	18
	7/19/77		_		51.76N	147.13W		.184	•461	•40B	7/19/77				43.05N	74.77W		.037	•106	35
	7/19/77		-		51.66N	145.94W		.132	•434	•30B	7/19/77				42.79N	73.99W		.035	•113	.31
		'	3.20				. , •	* 7 7 <b>7</b>			7/19/77		- :	_	42.10N	73.73W		.046	•111	41
												<del>-</del> '						· <del>-</del>		•



MAXIMUM VALUES: AMBIENT OZONE= .540 CABIN OZONE= .415 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.18 TOTAL OBS IN CABIN: 84 DATA SOURCE: GASP TAPE VL010, FILE 4

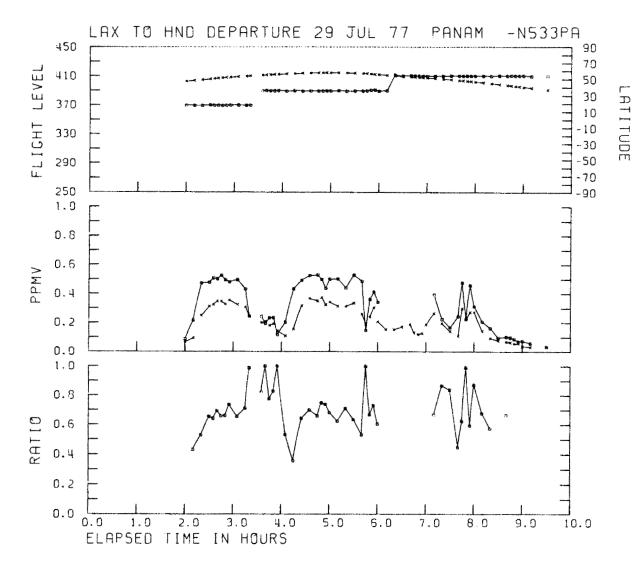
	MO/DA/YR		ETIM		LAT	LONG	TEND	OZONE (	PMVI	PATIO	MO/DA/YR	GMT	FTIM	Fi	LAT	LONG	TEMP	OZONE (	o PMVI)	PATIO
	MOY DAY TR	Ont	HR:MN	, ,	LAI	£014G	(C)	CABIN	AMB.	MALIO	HO/ DA/ TN	OHI	HREMN		LAI	20110	(C)	CABIN	AMB.	NAILO
	7/28/77	1745	1:10	370	48.46N	81.46W	-59.	.073	•093		7/28/77	2330	6:55	389	60.78N	161.94W	-48.	.280	.379	.74
	7/28/77				49.50N	32.54W		.065	.093		7/28/77		7:05	389	60.46N	164.71W		.187	.263	.71
	7/28/77	1805	1:30	370	50.52N	83.66W	-60.	.077	•098		7/28/77		7:15	389	60.10N	167.33W	-43.	.313	•478	. 65
	7/28/77	1815	1:40	370	51.45N	85.04W	-61•	.050	•097		7/28/77	2355			59.90N	168.60W		.330	•483	.68
	7/28/77				51.89N	85.73W		.066	•088		7/29/77				59.47N	171.12W		•296	• 444	.67
	7/28/77		-		52.33N	86.43W		.000	•067		7/29/77				58.99N	173.57W		•267	•389	•69
	7/28/77		-		52.76N	87.14W		.083	•158	•53	7/29/77				58.48N	175.93W		•266	•423	.63
	7/28/77 7/28/77				53.18N	87.85W		.137	•249	•55	7/29/77				58.20N 57.92N	177.09W		•269	• 441	•61 69
	7/28/77				53.99N 54.80N	89.29W 90.83W		.316 .301	•481 •450	•66 •67	7/29/77 7/29/77				57.62N	178.24W 179.37W		.329 .317	•476 •530	.69 .60
	7/28/77				55.60N	92.43W		.369	•478	•77	7/29/77				57.31N	179.51E		•313	•540	.58
	7/28/77				56.41N	94.17W		.415	•470	-88	7/29/77				56.67N	177.34E		•351	•519	68
	7/28/77				56.82N	95.10W		.386	489	.79	7/29/77				56.00N	175.28E		.304	•521	58
	7/28/77	1925	2:50	384	57.20N	96.02W		.384	.492	•78	7/29/77	0115	8:40	410	55.30N	173.30E	-46.	.287	.40€	.71
	7/28/77	1940	3:05	389	58.34N	98.95W	<b>~47</b> .	.314	•467	•67	7/29/77	0125	8:50	410	54.58N	171.43E	-48.	.100	.164	.6İ
	7/28/77				59.08N	101.03W		.325	• 459	•71	7/29/77		Mark to		54.21N	170.51E		.093	.142	.65
	7/28/77				59.77N	103.21W		.354	•478	•74	7/29/77				53.86N	169.59E		.223	•398	.50
	7/28/17				60.44N	105.49W		.358	•483	• 74	7/29/77				53.55N	168.66E		.259	.240	
	7/28/77				61.06N	107.88W		•335	•428	•78	7/29/77				53.22N	167.72E		.264	.411	•64
	7/28/77 7/28/77				61.35N 61.64N	109.07W		.314	•427	•74 •74	7/29/17 7/29/17	_			52.55N 51.86N	165.91E		.167	•258	.65
	7/28/77				61.91N	110.35W		.290 .296	•393 •383	• 7 4	7/29/77				51.00N	164.18E 162.49E		•143 •130	•250 •252	.57 .52
Þ	7/28/77				62.59N	115.59W		.338	• 474	•71	7/29/17	_			50.40N	160.85E		.163	•232	.56
มี	7/28/77	_			62.86N	118.46W		.347	•487	•71	7/29/77				50.04N	160.08E		.170	•280	.61
•	7/28/77				63.08N	121.39W		.Ž19	490	. 45	7/29/77				49.65N	159.30E		.131	•250	.52
	7/28/77	2120			63.23N	124.33W		.313	•435	.72	7/29/77				49.25N	158.52E		.141	•216	65
	7/28/77	2125	4:50	389	63.29N	125.81W	-50•	.310	•477	•65	7/29/77	0245	10:10	431	48.83N	157.74E	-59.	.140	.232	.60
	7/28/77		4:55	389	63.33N	127.34W		.161	• 456	• 35	7/29/77	0255			47.99N	156.21E		.162	•301	.54
	7/28/77	_			63.37N	130.36W		.315	• 26,6		7/29/77	-			47.09N	154.69E		.216	•314	.69
	7/28/77				63.37N	131.89W		.198	•269	•74	7/29/77				46.17N	153.20E		.139	-241	.58
	7/28/77				63.32N	134.89W		.051	•068		7/29/77				45.22N	151.76E		.135	•233	•58 53
	7/28/77 7/28/77				63.20N	137.93W		.034	•072		7/29/77		_		44.74N	151.05E		•133	•173	•77
	7/28/77				63.02N 62.88N	140.93W 143.91W		.027 .046	•068 •060		7/29/77 7/29/77				44.26N 43.79N	150.37E		•101 •116	•147 •118	.69 .98
	7/28/77				62.80N	145.37W		.047	•058		7/29/77		- ,		42.37N	147.71E		.124	•231	.54
	7/28/77			-	62.71N	146.83W	🕳 -	.047	•080		7/29/77				41.39N	146.43E		.126	•239	.53
	7/28/77				62.60N	148.29W		.043	•0'90		7/29/77				40.39N	145.17E		.107	•247	43
	7/28/77				62.48N	149.73W		.093	•156	•60	7/29/77				39.38N	143.90E		.154	.277	56
	7/28/77	2255	6:20	389	62.19N	152.61W		.179	.301	•59	7/29/77	0430	11:55	431	38.86N	143.26E		.167	.255	.65
	7/28/77	2310	6:35	388	61.65N	156.75W	-51.	.099	•112	•88	7/29/77	0435			38.33N	142.63E	-63.	.131	•165	.79
	7/28/77				61.22N	159.42W		.147	•128	1.15	7/29/77	0440			37.79N	141.98E		.050	.091	
	7/28/77	2325	6:50	388	60.99N	160.75W	-48•	.258	•477	•54	7/29/77	0445	12:10	399	37.33N	141.26E	-58.	.051	•066	



MAXIMUM VALUES: AMBIENT OZONE= .510 CABIN OZONE≃ .176 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .90 TOTAL OBS IN CABIN: 53
DATA SOURCE: GASP TAPE VL010, FILE 4

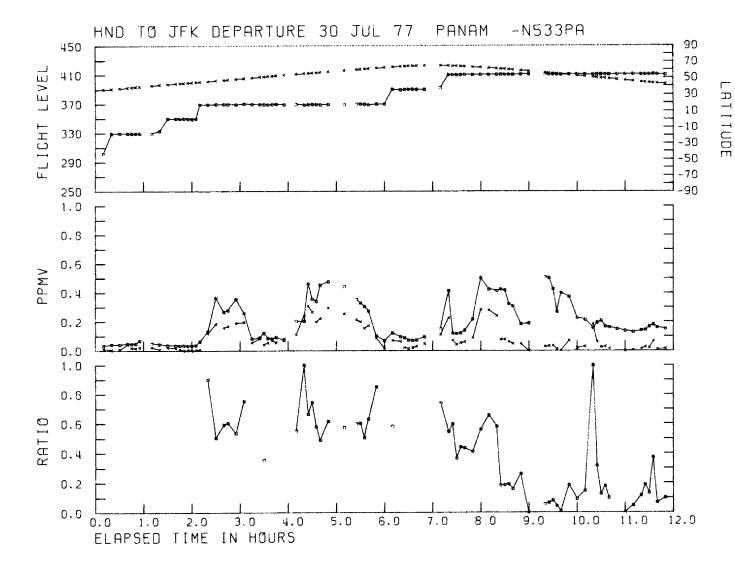
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

٨	40/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO
	7/29/77		1:10	370	38.77N	151.68E	-53.	.033	• 0 4 7		7/29/77	1410	5:35	411	46.23N	155.52W		.146	•266	•55
	7/29/77	0955	1:20	370	39.44N	153.24E	<del>-</del> 53•	.005	•061		7/29/77	1415	5:40	410	46.03N	154.53W	-56.	.124	•296	.44
	7/29/77	1005	1:30	370	40.10N	154.84E	-52.	.087	•247	• 35	7/29/77	1420	5:45	410	45.82N	153.53W		.152	• 257	.59
	7/29/17	1015	1:40	369	40.74N	156.47E	-48.	.149	•338	• 4 4	7/29/77		_		45.60N	152.51W		.172	•473	.36
	7/29/77	1020	1:45	370	41.05N	157.31E	-5I·	.148	• 347	•43	7/29/77	1430	5:55	410	45.37N	151.51W		•069	•128	.54
	7/29/77	1025	1:50	370	41.38N	158.20E	-54.	.116	•129	•90	7/29/77				44.99N	149.98W		•069	•157	.44
	7/29/77	1030	1:55	370	41.69N	159.10E	-54.	.039	•072		7/29/77	1500		_	44.23N	145.56W	-49.	•115	.218	.53
	7/29/77	1035	2:00	370	41.98N	159.95E	-54.	.021	•072		7/29/77	1510	6:35	410	43.81N	143.50W	-51.	.078	•146	•53
	7/29/77		2:10	370	42.77N	161.68E	-54.	.002	•041		7/29/77	1515	6:40	410	43.60N	142.54W	-52.	.176	•510	.35
	7/29/77	_	2:17	370	43.89N	164.29E	~54.	.000	•042		7/29/77	1520	6:45	410	43.38N	141.56W	-52.	.117	•190	.62
	7/29/77		2:35	370	44.60N	166.09E	~54•	.009	•037		7/29/77	1525	6:50	410	43.14N	140.58W	-55.	.171	•300	.57
	7/29/77	1150	2:45	370	45.29N	167.94E	-54.	.000	•036		7/29/77	1530	6:55	410	42.90N	139.61W	-57.	.153	•268	.57
	7/29/77		2:50	370	45.62N	168.88E	-54.	.067	• 058		7/29/77	1540			42.41N	137.72W	-59.	.139	.245	.57
	7/29/77	-, -	2:55	370	45.94N	169.82E	-54.	.004	•067		7/29/77	1550			41.91N	135.91W	-61.	.014	•092	
	7/29/77		3:00	370	46.20N	170.81E	-54.	.006	• 090		7/29/77	1600	7:25	410	41.39N	134.16W	-58.	.063	•132	.48
	7/29/77	1140	3:05	370	46.44N	171.80E	-55.	.035	• 069		7/29/77	1610	7:35	410	40.84N	132.45W	-59.	• 096	•188	.51
	7/29/77	1150	3:15	370	46.88N	173.82E	-55.	.006	• 065		7/29/77	1615	7:40	410	40.56N	131.60W	-60.	.096	<ul><li>198</li></ul>	.48
	7/29/77	1205			47.49N	176.90E	-54.		• 035		7/29/77	1620			40.27N	130.76W	-58.	.095	.144	.66
	7/29/77	1215	3:40	380	47.84N	179.00E	-56.	.018	• 041		7/29/77	1625			39.96N	129.93W	-58.	.063	•111	.57
	7/29/77	1550	3:45	390	48.00N	179.98E	-59•	.020	•038		7/29/77	1630			39.59N	129.17W	-60.	.083	•224	.37
	7/29/77	-	3:50	390	48.04N	178.82W	-59.	.028	•032		7/29/77	1640			38.82N	127.66W	-62.	.064	•122	.52
	7/29/77	1230	3:55	390	48.08N	177.70W	-59.		•030		7/29/77	1650			38.04N	126.22W	-62.	.072	•113	.64
Ω	7/29/77		4:00	390	48.10N	176.58W	-59.	.012	•029		7/29/77	1700			37.36N	124.75W	-61.	.022	·108	.20
2	7/29/17	1305	4:30	390	47.99N	169.76W	-61.	.020			7/29/77	1710	8:35	410	37.11N	122.98W	-62.	.000	-043	
	7/29/77	_		-	47.63N	165.18W	-61.	.007			7/29/77	1715			37.01N	122.08W	-62.	.033	•044	
	7/29/77	-			47.51N	164.06W	-61.	8EU.			7/29/77	1720	8:45	409	36.53N	121.50W	-62.	.000	.042	
	7/29/77	1345	5:10	390	47.11N	160.80W	-61.	.010	•059		7/29/77	1725	8:50	410	36.05N	120.90W	-61.		.048	
	7/29/77	1355	5:20	391	46.79N	158.68W	-60.	.078	•076		7/29/77	1730	8:55	410	35.57N	120.32W	-61.	.011	•100	



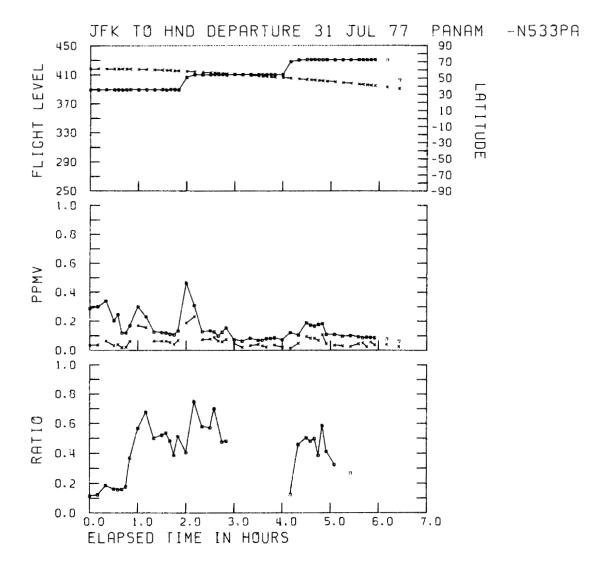
MAXIMUM VALUES: AMBIENT OZONE= .530 CABIN OZONE= .374 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.30 TOTAL OBS IN CABIN: 59
DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE () CABIN		RATIO
7/29/77	2329	2:00	370	47.58N	132.28W	-56•	.067	•087		7/30/77		5:45	390	56.77N	177.95E	-45.	.191	.147	1.30
7/29/77	2339	2:10	369	48.50N	133.71W	-54.	.094	•217	• 43	7/30/77	0319	5:50	391	56.40N	176.92E	-48.	.241	•361	•67
7/29/77	2349	2:20	369	49.41N	135.21W	-45.	.250	•473	•53	7/30/77				56.03N	175.93E		.303	•414	.73
7/29/77	2359	2:30	370	50.36N	136.86W	-42.	.313	•478	•65	7/30/77	0329	6:00	389	55.67N	174.99E	-54.	.208	•343	.61
7/30/77	0004	2:35	370	50.83N	137.72W	-42.	.326	•508	•64	7/30/77		6:10	390	54.92N	173.15E		.154		
7/30/77	0009	2:40	370	51.28N	138.58W	-40.	.348	•502	•69	7/30/77			_	54.15N	171.39E		.152		
7/30/77	0014	2:45	370	51.73N	139.45W	-39•	.347	•526	•66	7/30/77		F	-	53.38N	169.60E		.171		
7/30/77				52.14N	140.38W	-39•	.328	• 496		7/30/77			_	52.83N	167.74E		.189		
7/30/77	0024	2:55	370	52.50N	141.40W	-38.	.355	•482	•74	7/30/77				52.54N	166.84E		.131		
7/30/77	0034	3:05	370	53.20N	143.50W	-39•	.325	•496	_	7/30/77		400		52.25N	165.95E		.120		
7/30/77	0044	3:15	370	53.85N	145.67W	-41.	.307	•432	•71	7/30/77				51.95N	165.07E	-	.126		
7/30/77	0049	3:20	370	54.16N	146.75W	-45.	.242	• 245	•99	7/30/77				51.63N	164.18E	-56.	.188		
7/30/77				55.01N	150.05W	-48.	.200	•243		7/30/77				50.96N	162.39E		.265	•396	.67
7/30/77	0109	3:40	390	55.29N	151.17W	-48.	.207	•195	1.06	7/30/77				50.25N	160.60E	-50.	.195	•225	.87
7/30/77		3:45	390	55.55N	152.31W	-49.	.180	•232	•78	7/30/77				49.42N	158.86E		.140	•167	.84
7/30/77	0119	3:50	390	55.81N	153.48W	<b>-50</b> •	.193	•233	•83	7/30/77	0509			48.54N	157.20E	<b>~51.</b>	.109	•243	.45
7/30/77	0124	3:55	390	56.06N	154.67W	<b>-50</b> •	.143	•118	1.21	7/30/77	0514	7:45	410	48.09N	156.40E	-52.	.298	•477	.62
7/30/77	0134	4:05	389	56.52N	157.07W	-46.	.108	•203	•53	7/30/77	0519	7:50	410	47.63N	155.60E	-53.	.225	.227	.99
7/30/77	0144	4:15	390	56.93N	159.55W	-46.	.156	•434	• 36	7/30/77	0524	7:55	410	47.16N	154.81E	-55.	.273	• 459	•59
7/30/77	0154	4:25	389	57.28N	162.10W	-43.	.317	•493	•64	7/30/77	0529	8:00	410	46.68N	154.03E	-55.	.273	•313	.87
7/30/77	0204	4:35	390	57.57N	164.68W	-41.	•367	•525	•70	7/30/77	0539	8:10	410	45.69N	152.46E	-55.	.141	-208	.68
7/30/77	0214	4:45	390	57.81N	167.29W	-41.	.350	•530	•66	7/30/77	0549	8:20	410	44.66N	150.94E	-58.	.093	.162	.57
7/30/77	0519	4:50	390	57.91N	168.60W	-40.	.374	•499	•75	7/30/77	0559	8:30	410	43.61N	144.43E	-59.	.077	.097	
₩ 7/30/77	0224	4:55	390	57.99N	169.91W	-41.	.324	•438	•74	7/30/77	0609	8:40	410	42.54N	147.95E	-59.	.068	.102	.67
7/30/77	0229	5:00	390	57.97N	171.22W	-40.	.343	•502	•68	7/30/77	0614	8:45	410	42.00N	141.23E	-59.	.064	•098	
7/30/77	0239	5:10	390	57.88N	173.80W	-41.	.314	•503	•62	7/30/77	0619	8:50	410	41.46N	146.52E	-60.	.056	.088	
7/30/77	0249	5:20	389	57.75N	176.32W	-41•	.313	•441	•71	7/30/77	0624	8:55	410	40.91N	145.82E	-60.	.058	.072	
7/30/77	0259	5:30	390	57.56N	178.75W	-42.	.336	•529	•64	7/30/77	0629	9:00	410	40.36N	145.14E	-60.	.037	.074	
7/30/77	0309	5:40	390	57.12N	178.99E	-43.	.259	•487	•53	7/30/77	0639	9:10	409	39.31N	143.81E	-59.	.033	.059	
										7/30/77	065^	9:30	410	37.12N	14Î.41£	-58.	.032	•036	



MAXIMUM VALUES: AMBIENT OZONE= .509 CABIN OZONE= .307 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.19 TOTAL OBS IN CABIN: 88 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

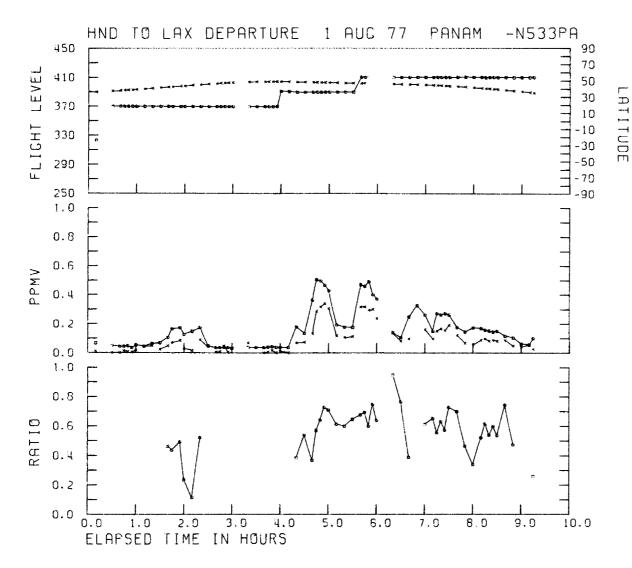
М	O/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE (	PPMV) AMB.	RATIO	MOZNAZYR	GMT	ŁTIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE (	PMV) AMB.	RATIC
	7/30/77	1013	0:10	302	36.39N	142.40E	-30•	.013	• 035		7/30/77	1615	6:12	390	63.70N	152.82W	-61.	.071	.122	.58
	7/30/77		0:20	329	36.92N	143.79E		.005	•043		7/30/77	1625	6:22	389	64.33N	150.21W		.063	•096	
	7/30/77	1033	0:30	330	37.75N	144.91E	-38•	.009	•043		7/30/77	1630			64.63N	148.83W		.022	•089	
	7/30/77	1043	0:40	329	38.62N	145.99E	-38•	.044	•050		7/30/77				64.86N	147.33W		.015	•073	
	7/30/77	1048			39.04N	146.55E		.020	• 0 4 8		7/30/77				64.98N	145.73W		.021	•071	
	7/30/77	1053			39.47N	147.12E		.017	• 049		7/30/77				65.09N	144.13W		.031	•073	
	7/30/77				39.89N	147.69E	_	.022	• 069		7/30/77				65.25N	140.89W		.048	•095	7.4
	7/30/77	-			41.13N	149.45E	-	.023	•051		7/30/77				65.39N	134.36W		.111	•150	.74
	7/30/77				41.91N	150.68E		.008	• 045		7/30/77				65.06N 64.86N	131.15W 129.58W		.226 .071	•414 •119	.55
	7/30/77		_		42.64N	151.93E		.022	• 038		7/30/77 7/30/77	_			64.65N	128.04W		.043	•117	.60 .37
	7/30/77	-	_		43.35N	153.20E		.019	•036 •035		7/30/77				64.43N	126.52W		.054	.122	. 44
	7/30/77		-		43.70N	153.85E	_	•009	•035		7/30/77				64.18N	124.99W		.061	•140	.44
	7/30/77				44.05N 44.40N	154.52E 155.19E		.000 .004	•034		7/30/77				63.64N	121.98W		.089	•216	41
	7/30/77		_		44.73N	155.84E		.000	•034		7/30/77	_			63.03N	119.08W		.282	•502	.56
	7/30/77				45.23N	156.86E		.005	•037		7/30/77	-			62.36N	116.28W		.279	•425	.66
	7/30/77	-			45.57N	157.56E		.006	•064		7/30/77				61.63N	113.59W		.241	•414	.58
	7/30/77	_			46.22N	158.98E		.120	•133	•90	7/30/77		8:27	410	61.24N	112.28W		.078	.425	.188
	7/30/77				46.92N	160.51E		.184	-365	•50	7/30/77	-	8:32	410	60.84N	110.99W	-48.	.078	•418	.198
	7/30/77	-			47.70N	162.16E		.158	.267	•59	7/30/77	1840	8:37	410	60.43N	109.74W	-47.	.062	•323	.198
	7/30/77	-			48.05N	162.92E		.167	.277	•60	7/30/77	1845	8:42	410	60.00N	108.51W	-48.	.049	•308	.10B
	7/30/77				48.83N	164.73E	-49.	.190	• 355	•54	7/30/77	1855	8:52	410	59.11N	106.15W	-48.	.048	•184	.26B
<i>&gt;</i>	7/30/77	1310			49.63N	166.71E	-52.	.196	•260	• 75	7/30/77	1905	9:02	410	58.18N	103.91W	~49.	.000	•189	•00B
ω	7/30/77		3:17	370	50.43N	168.85E	<b>⇒</b> 55•	.056	•082		7/30/77	1925			56.22N	99.96W		.030	•509	.008
	7/30/77	1330	3:27	370	51.27N	170.88E	-56•	. 084	•091		7/30/77				55.77N	98.96W		.033	•502	.078
	7/30/77	1335	3:32	370	51.73N	171.85E		.043	•121	• 36	7/30/77			and the same of th	55.31N	97.99W		•035	•427	.08B
	7/30/77	1340			52.18N	172.82E		.054	•086		7/30/77				54.84N	97.05W		.012	•268	.04B
	7/30/77		_		52.62N	173.82E		.071	•082		7/30/77				54.38N	96.15W		•004	•400	.01B
	7/30/77				53.02N	174.88E		.056	•093		7/30/77				53.44N	94.41W		•069	•373	.188 .098
	7/30/77				53.77N	177.00E	-	.083	•073	~ ~	7/30/77				52.49N 51.52N	92.77W 91.21W		.021 .031	•226 •213	.15B
	7/30/77				54.81N	179.75W		.112	•203		7/30/77 7/30/77		-		50.53N	89.72W		.182		1.178
	7/30/77	-			55.46N	177.49W		.241		1.19	7/30/77				50.03N	88.96W		.061	•193	.32B
	7/30/77				55.76N	176.39W 175.30W		.307 .266	•462 •357	•75	7/30/77		<b>-</b>		49.56N	88.12W		.026	•207	13B
	7/30/77		-		56.10N 56.54N	174.31W		.198	• 357	•58	7/30/77		-		49.09N	87.29W		.030	.168	188
	7/30/77				56.97N	173.32W		.222	• 454	•49	7/30/77				48.61N	86.48W		.016	•161	.10B
	7/30/77				57.79N	171.26W		.294	•477	•62	7/30/71				47.62N	84.89W		***	•148	• -
	7/30/77				59.34N	166.86W		.255	•444	•57	7/30/77		- , .		46.62N	83.37W		.000	•136	.00B
	7/30/77				60.36N	163.42W		.213	• 355	•60	7/30/77	-			45.60N	81.91W	-64.	.006	.129	.058
	7/30/77				60.68N	162.22W	_	.198	•329	•60	7/30/77				44.55N	80.47W		.016	.140	.118
	7/30/77	_			61.07N	161.10W		.154	•305	•50	7/30/77				44.14N	79.63W		.027	.144	.19B
	7/30/77				61.48N	160.02W		.172	•273	•63	7/30/77		11:32	410	43.69N	79.09W	-61.	.022	•167	.13B
	7/30/77			-	62.26N	157.79W		.086	.101	.85	7/30/77		11:37	410	43.33N	78.19W	-61.	.067	.180	.37B
	7/30/77	_	-		63.00N	155.42W		.017	•070	-	7/30/77	2145	11:42	410	42.95N	77.30W	-61.	.011	•160	.078
											7/30/77	2155	11:52	410	42.20N	75.61W	-57.	.015	•151	.108



MAXIMUM VALUES: AMBIENT OZONE= .462 CABIN OZONE= .231 RATIO (LÍMITEN TO AMB. OZONE ABOVE 0.1)= .75 TOTAL OBS IN CABIN: 50 DATA SOURCE: GASP TAPE VLU10, FILE 4

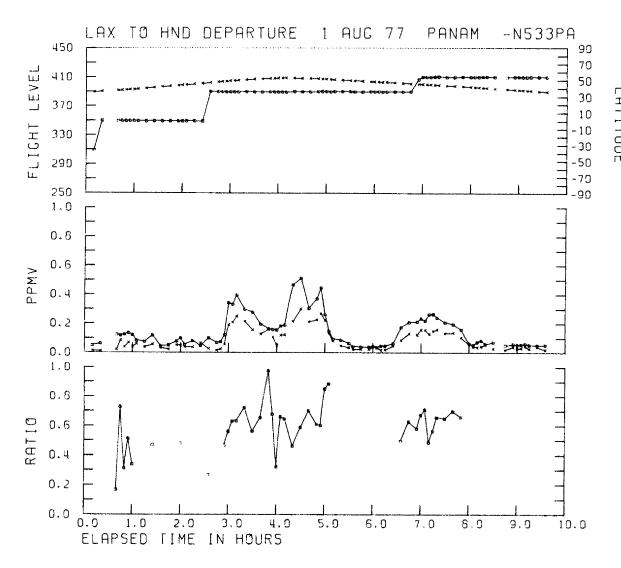
AN "A" AFTER THE GMT BELOW DENOTES GMT VISSING ON THE ORIGINAL DATA TAPE

М	O/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PP		RATIO	MOZĐAZYR	GMT	ETIM   HR:MN	FL LAT	LONG		OZONE (		RATIO
ψ	7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 7/31/77 8/ 1/77 8/ 1/77 8/ 1/77 8/ 1/77 8/ 1/77 8/ 1/77	2203M 2213M 2223M 2238M 2248M 2248M 2303M 2313M 2313M 2323M 2333M 2343M 2343M 2343M 2343M 23003M 0013M 0003M 0003M 0003M 0003M	HR:MN  0:00 0:10 0:20 0:35 0:40 0:45 0:50 1:00 1:20 1:35 1:40 1:45 1:50 2:10 2:20 2:35 2:40	389 389 389 389 390 390 390 390 390 390 407 410 410 411 410	61.38N 61.37N 61.35N 61.34N 61.31N 61.25N 61.18N 60.70N 60.70N 60.75N 59.71N 59.21N 59.21N 59.21N 59.21N 59.21N 59.21N 59.21N 59.21N 59.21N 59.21N 59.21N 59.21N 59.21N	141.33W 144.27W 147.25W 150.36W 151.86W 153.41W 154.96W 156.51W 169.56W 168.42W 171.15W 172.49W 173.80W 176.34W 178.74E 176.95E 176.95E 176.95E	(C) -52. +50505150525151515555555555	CABIN A  .033 .037 .063 .039 .019 .021 .062 .170 .156 .063 .063 .053 .041 .068 .187 .231 .074 .077 .088 .063 .	M8. 286 300 338 282 203 2119 119 169 300 231 118 110 106 133 462 309 1135	.128 .198 .198 .168 .168 .188 .37 .57 .68 .50 .52 .53 .48 .39 .51 .40 .75 .58	8/ 1/77 8/ 1/77	0113M 0123M 0133M 0133M 0148M 0148M 0203M 0213M 0223M 0223M 0223M 0223M 0238M 0238M 0238M 0238M 0338M 0338M 0338M 0338M	H 33333333344444444445555555	10 53.86N 10 53.25N 10 52.62N 10 52.62N 10 51.97N 10 51.64N 10 51.30N 10 50.61N 28 49.90N 30 49.13N 31 47.93N 31 47.99N 31 46.66N 31 46.22N 31 45.33N 31 47.99N 31 43.49N 31 42.55N 31 42.55N 31 42.55N 31 42.55N	169.58E 167.81E 166.10E 165.29E 163.64E 162.84E 161.29E 158.31E 156.85E 150.12E 154.69E 153.99E 153.99E 153.99E 153.99E 154.99E 154.99E 147.96E 147.96E 147.96E	(C) -5756555253535356565656565657.	CABIN	AMB.  .063 .083 .069 .070 .080 .086 .073 .121 .105 .189 .177 .183 .167 .109 .108 .097 .101 .093	.12 .46 .50 .48 .50 .38 .58 .41 .32
•	8/ 1/77 8/ 1/77 8/ 1/77	0053M	2:50	410	55.55N 55.21N 54.54N	174.00E 173.07E 171.31E	-56.	.074 .	124 154 073	•48 •48	8/ 1/77 8/ 1/77 8/ 1/77 8/ 1/77	0358M 0413M	5:55 4: 6:10 4	31 41.10N 31 40.61N 31 39.11N 03 37.23N	146.06E 145.44E 143.56E 141.11E	-58. -57.	.056 .037 .040 .026	.089 .086 .079 .063	



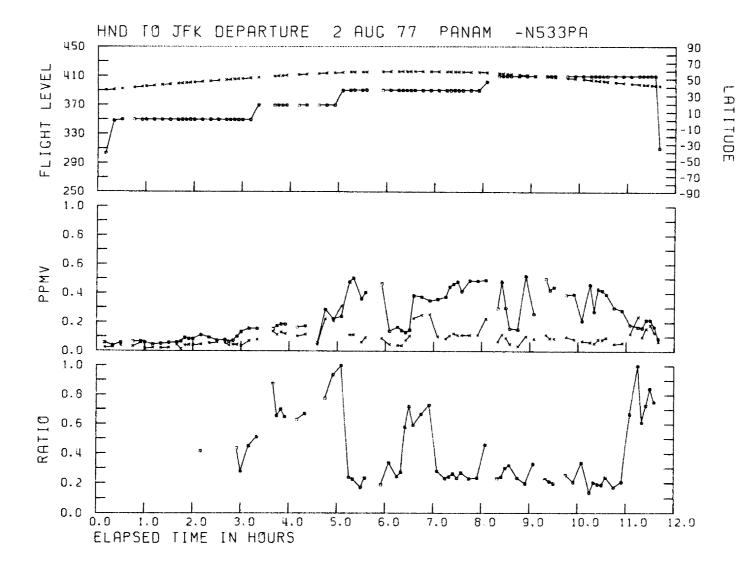
MAXIMUM VALUES: AMBIENT OZONE= .504 CABIN OZONE= .339 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .95 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL010, FILE 4

М	O/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO	MO/DA/YR	GMT	FIIM	FL	LAT	LONG	TEMP	OZONE (	₽PMV)	RATIO
			HR:MN				(C)	CARIN	AMB.				HH: MN				(C)	CABIN	AMB.	
	8/ 1/77	0821	0:10	323	35.96N	142.55E	-35•	.013	•068		8/ 1/77	1301	4:50	390	47.84N	166.73W	-40.	.318	•496	.64
1	8/ 1/77	0841	0:30	370	37.21N	145.44E	-47.	.002	•050		8/ 1/77	1306	4:55	390	47.75N	165.63W	-40.	.339	•466	.73
	8/ 1/77	0851	0:40	370	37.82N	146.94E	-48.	.002	•046		8/ 1/77	1311	5:00	390	47.65N	164.57W	-40.	.305	•430	.71
	8/ 1/77	0856	0:45	370	38.13N	147.71E	-48.	.015	•046		8/ 1/77	1321	5:10	390	47.41N	162.44W	-43.	.119	•194	.61
i	8/ 1/77	0901	0:50	370	38.43N	148.48E	-48.	.008	•049		8/ 1/77	1331	5:20	390	47.14N	160.33W	-44.	.106	•177	.60
	8/ 1/77	0906	0:55	370	38.72N	149.27E	-47.	.006	•037		8/ 1/77	1341	5:30	390	46.97N	158.20W	-46.	.113	•175	.65
	8/ 1/77	0911	1:00	370	39.02N	150.07E	-47.	.019	• 054		8/ 1/77	1351	5:40	410	46.80N	156.09W	-47.	.317	•469	•68
	8/ 1/77	0921	1:10	370	39.83N	151.46E	-47.	.047	• 046		8/ 1/77	1356	5:45	410	46.71N	155.04W	-50.	.317	• 458	.69
1	8/ 1/77	0931	1:20	370	40.63N	152.92E	-44.	.050	•064		8/ 1/77	1401	5:50	410	46.60N	154.01W	-49.	.294	•490	.60
	8/ 1/77	0941	1:30	370	41.39N	154.39E	-49.	.025	•070		8/ 1/77	1406	5:55	410	46.49N	152.97W	-50.	.300	•402	.75
1	8/ 1/77	0951	1:40	370	42.12N	155.86E	-49.	.049	-106	• 46	8/ 1/77	1411	6:00	410	46.36N	151.93w	-51.	.238	•372	.64
	8/ 1/77		1:45	370	42.48N	156.61E		.072	•165	• 44	8/ 1/77				45.93N	147.80W		.135	•142	.95
	8/ 1/77		1:55.	370	43.21N	158.21E	-51.	.085	•173	• 49	8/ 1/77				45.76N	145.73W		.081	•106	.76
	8/ 1/77		_	-	43.58N	159.04E		.030	•128	•23	8/ 1/77			_	45.51N	143.25W		.097	•249	.39
	8/ 1/77				44.35N	160.77E		.017	• 148	•11	8/ 1/77				45.28N	141.32W			•327	
	8/ 1/77	-			45.13N	162.51E		.091	•175	•52	8/ 1/77				45.02N	139.54W		.161	• 263	.61
	8/ 1/77				45.86N	164.22E		.043	•051		8/ 1/77				44.52N	137.55W		.097	•149	•65
	8/ 1/77				46.56N	165.96E		.007	•037		8/ 1/77				44.28N	136.65W		.151	•272	.56
	8/ 1/77	-			46.91N	166.86E		.009	•038		8/ 1/77				44.03N	135.76W		.166	• 264	.63
	8/ 1/77	-	-	-	47.24N	167.76E		.049	•039		8/ 1/77				43.76N	134.86W		.156	•272	.57
	8/ 1/77				47.57N	168.70E		.004	• 038		8/ 1/77				43.50N	134.01W		.191	•263	.73
	8/ 1/77				47.90N	169.65E		.031	•033		8/ 1/77				42.92N	132.30W		.123	•176	.70
w	8/ 1/77				48.52N	173.80E		.069	•039		8/ 1/77				42.27N	130.67W		.068	•146	• 47
•	8/ 1/77				48.73N	175.93E			•038		8/ 1/77				41.61N	129.10W		.059	•173	•34
	8/ 1/77	-			48.91N	178.07E	-	.001	•037		8/ 1/77				40.93N	127.56W		.088	•169	.52
	8/ 1/77	-			48.99N	179.15E		.006	•041		8/ 1/77				40.58N	126.81W		.097	•158	.61
	8/ 1/77			_	49.05N	179.75W		.018	• 044		8/ 1/77				40.27N	126.05W		.082	•152	•54
	8/ 1/77				48.98N	178.63W		.001	•039		8/ 1/77		T 3 3		39.95N	125.29W		.087	•146	• 60
	8/ 1/77				48.90N	177.49W		.010	•038		8/ 1/77	-	<del></del>		39.54N	124.64W		.081	•151	•54
	8/ 1/77				48.72N	175.29W		.001	•036		8/ 1/77				38.62N	123.47W		.087	117	• 74
	8/ 1/77				48.50N	173.15W		.069	•179	• 39	8/ 1/77				37.71N	122.36W		.050	•105	.48
	8/ 1/77				48.23N	171.03W		.073	•136	•54	8/ 1/77		19		36.78N	121.20M		.042	•063	
	8/ 1/77	_			48.01N	168.90W		.134	• 363	• 37	8/ 1/77				35.78N	120.29W		.059	• 057	
1	8/ 1/77	1256	4:45	390	47.93N	167.82W	-43•	.287	•504	•57	8/ 1/77	1729	9:18	410	35.24N	119.88W	-59.	.026	•100	



MAXIMUM VALUES: AMBIENT OZONE= .511 CABIN OZONE= .301 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .98 TOTAL OBS IN CABIN: 75
DATA SOURCE: GASP TAPE VL010, FILE 4

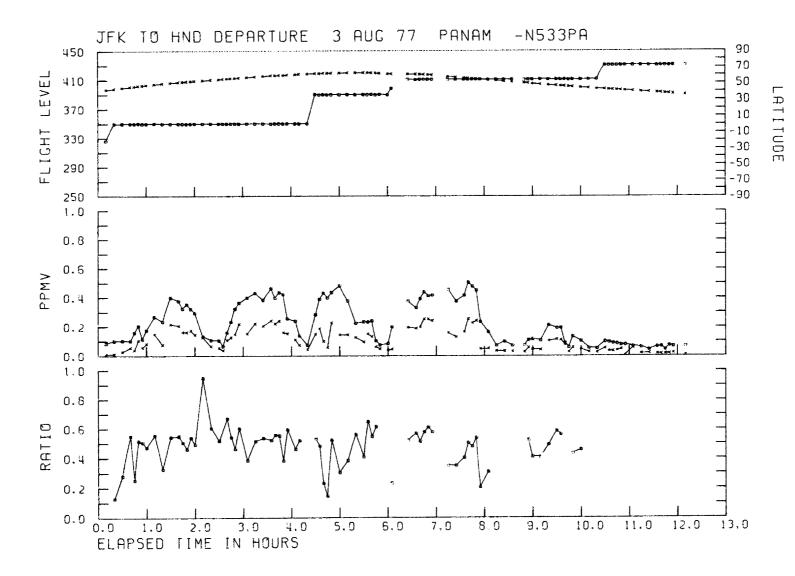
DATA OCCIONA VIOLA																					
M	AQVC	A/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	CARIN OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN		Oltan
		1/77	2032	0.10	300	35.58N	120.47W	-26	.015	-050		8/ 2/77	0124	5:02	390	51.47N	172.09W	-50.	.223	• 262	.85
			2042			36.53N	121.82W		.010	•063		8/ 2/77					173.11W			•150	89
			2102			37.68N	124.99W		.021	•125	•17	8/ 2/77					174.09W		.082	• 095	• -
			2107			37.85N	125.86W		.086	•118	•73	8/ 2/17					175.99W		.047	.087	
						38.25N	126.60W		-	•125	•31	8/ 2/17					177.79W		•035	• 065	
			2112			38.66N	127.35W		.069	•135	•51	8/ 2/77					1.78.65W			•042	
			2117				127.33W			•121	•34	8/ 2/77			-		179.70E		.024	•039	
				_		39.05N				•085	• 3 4	8/ 2/17		_		48.50N	178.00E		.024	•039	
			2127	_		39.43N	128.86W					8/ 2/77					177.15E		.040	•042	
			2137			40.23N	130.33W		.039	• 075	4.7	8/ 2/77			-		176.32E			•036	
			2147			41.16N	131.69W		.056	•119						47.80N	175.49E		.018	•046	
			2157	-		42.09N	133.11W		.032	•046		8/ 2/77				47.55N	174.67E		.021	• 046	
			2207	-		42.97N	134.53W		.022	•051		8/ 2/77				47.04N			.047		
			2217			43.84N	135.99W			•078		8/ 2/77					173.04E			•062	e n
			5555			44.26N	136.73W		.048	•100		8/ 2/77				46.49N	171.40E			•175	.50
			2227			44.67N	137.48W			• 055		8/ 2/17					169.74E		.132	•210	.63
			2237	-		45.49N	139.00W			•081		8/ 2/77					168.00E		.124	•213	.58
			2247			46.32N	140.54W			•047		8/ 2/77					167.13E		.159	•236	•67
			2257			47.17N	142.03W		.027	•101	•27	8/ 2/77					166.26E		.157	•221	.71
	8/ 3	1/77	2307	2:45	390	48.01N	143.59W		.017	• 069		8/ 2/77				44.77N	165.42E		.129	•265	.49
	8/ 3	1/77	2312	2:50	390	48.42N	144.38W	-61•	.024	• 074		8/ 2/17				44.52N	164.57E		.150	• 266	.56
	8/ 3	1/77	2317	2:55	390	48.82N	145.18W			•122		8/ 2/77				44.26N	163.74E		.159	•242	* '
	8/ .	1/77	2322	3:00	390	49.22N	145.99W	-59.	.191	•341	•56	8/ 2/77				43.73N	162.11E			•208	.65
Α.	8/ .	1/77	2327	3:05	390	49.61N	146.82W	-54.	.209	•332	•63	8/ 2/77				43.18N	160.51E			•196	.70
A-367	8/	1/77	2332	3:10	390	50.00N	147.67W	-55•	.250	• 395	•63	8/ 2/77				42.61N	158.86E		.105	•159	.66
	8/ .	1/77	2342	3:20	390	50.76N	149.43W	-51•	.216	•299	•72	8/ 2/77	0424			42.01N	157.20E			• 065	
	8/	1/77	2352	3:30	390	51.34N	151.40W	-48.	.157	•279	•56	8/ 2/77	0429			41.71N	156.39E		.042	•053	
	8/	2/77	0002	3:40	390	51.81N	153.45W	-46.	.129	•197	•65	8/ 2/77	0434	8:12	410	41.40N	155.60E			•073	
	8/	2/77	0012	3:50	390	52.25N	155.62W	-44.	.160	•164	•98	8/ 2/77	0439	8:17	410	41.09N	154.80E	-55.	.042	•085	
			0017	3:55	390	52.46N	156.72W	-43.	.108	•159	•68	8/ 2/77	0444	8:22	410	40.76N	154.01E	-54.	.056	•061	
			0022			52.65N	157.83W			•156	•32	8/ 2/77	0455	8:33	410	40.10N	152.43E	-54.	.030	•072	
			0027			52.84N	158.95W			•183		8/ 2/77		8:47	410	39.09N	150.18E	-57.	.023	•051	
			0032		_	53.00N	160.07W		.123	-190		8/ 2/77	0519	8:57	410	38.46N	148.70E	-56.	.041	• 059	
			0044			52.80N	162.98W		-	• 466		8/ 2/77		9:02	410	38.14N	147.96E	-57.	.031	• 054	
			0054			52.58N	165.32W			•511		8/ 2/17		9:07	410	37.82N	147.24E	-57.	.032	.056	
			0104			52.32N	167.63W			•305		8/ 2/77				37.49N	146.52E			.061	
			0114			52.01N	169.94W			•371		8/ 2/77				37.16N	145.80E			•053	
		-	0119			51.74N	171.03W			•446		8/ 2/77				36.49N	144.38E		.040	•051	
1	0/	-///	0119	4.57	371	21 + 1 +N	111402W	-410	• = 0 >	-440	• • •	8/ 2/77	-				143.00E			•052	
												0, 2,11	<b>3</b> 333	1121	0	-500011		•	****		



MAXIMUM VALUES: AMBIENT OZONE= .518 CABIN OZONE= .311 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.43 TOTAL OBS IN CABIN: 83
DATA SOURCE: GASP TAPE VL010, FILE 4

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

										- · · · <del>-</del>									
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	CARIN OZONE (		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CABIN OZONE (	PPMV) AMB.	RATIO
8/ 2/77	1007	0:10	304	36.27N	142.53E	-20.	.025	•058		8/ 2/77	1618	6:61	390	59.47N	145.55W	-57.	.039	•143	.278
8/ 2/77				37.01N	144.04E		.028	•039		8/ 2/77				59.50N	144.17W		.075	•130	58
8/ 2/77				38.06N	145.32E			• 058		8/ 2/77		44 4		59.52N	142.76W		.105	.146	.72
8/ 2/77				39.61N	147.36E		.033	•066		8/ 2/77				59.52N	141.33W		.226	-382	59
8/ 2/77				40.60N	148.74E		.058	•066		8/ 2/77	1643	6:46	<b>390</b>	59.52N	138.48W	-54.	.249	•373	.67
8/ 2/77	1057	1:00	350	41.08N	149.42E	-44.	.017	•060		8/ 2/77	1653	6:56	390	59.54N	135.65W	-53.	.254	•348	.73
8/ 2/77	1107	1:10	350	41.99N	150.85E	-44.	.022	• 046		8/ 2/77		7:07	390	59.49N	132.75W	-53.	.100	•358	.28B
8/ 2/77	1117	1:20	350	42.86N	152.35E		.021	•051		8/ 2/77	1713			59.39N	129.98W		.086	•373	.23B
8/ 2/77				43.69N	153.86E		.023	• 057		8/ 2/77				59.32N	128.58W		.107	•443	.24B
8/ 2/77				44.50N	155.43E		.043	•060		8/ 2/77				59.23N	127.19W		.121	•462	.26B
8/ 2/77				44.90N	156.20E		.014	•066		8/ 2/77				59.13N	125.79W		•111	•477	.238
8/ 2/77		-		45.28N	156.98E		.040	•091		8/ 2/77				59.01N	124.41W		.111	1413	.278
8/ 2/77				45.66N	157.80E		.043	• 083		8/ 2/77				58.85N 58.69N	122.07W		•111	•485	238
8/ 2/77				46.03N	158.64E		.043	•083	4.3	8/ 2/77 8/ 2/77				58.39N	119.25W		.113	•484	.23B
8/ 2/77 8/ 2/77				46.79N 47.59N	160.33E 162.00E		.046 .055	•111 •094	•41	8/ 2/77				57.25N	110.56W		•224 •068	•489 •295	.46 .23B
8/ 2/17		_		48.33N	163.63E		.061	•073		8/ 2/77				56.85N	111.91		.115	•478	.24B
8/ 2/77		-		49.07N	165.36E		.056	•077		8/ 2/77				56.51N	110.78W		.090	•299	.30B
8/ 2/77	_			49.42N	166.24E		.040	•065		8/ 2/77			-	56.24N	109.55W		.050	.156	.32B
8/ 2/77			,	49.77N	167.13E		.045	•072		8/ 2/77				55.67N	107.12W		.035	•150	.23B
8/ 2/77				50.11N	168.04E		.044	•101	• 44	8/ 2/77				55.07N	104.82W		.102	518	208
8/ 2/77				50.45N	168.96E		.037	•133	•28	8/ 2/17		9:06	410	54.39N	102.50W		.085	•258	338
\$ 8/ 2/77	1307	3:10	350	51.19N	170.82E	-50.	.070	•156	• 45	8/ 2/77		9:21	410	53.32N	99.22W	-47.	.113	•500	.238
\$ 8/ 2/17 \$ 8/ 2/17	1317	3:20	370	52.04N	172.63E	<b>~</b> 51∙	.079	•155	•51	8/ 2/77		9:27	410	52.92N	90.12W	-47.	.089	.422	.21B
8/ 2/77	1337	3:40	370	53.57N	176.52E	-54.	.135	•154	•88	8/ 2/77	1929	9:32	410	52.54N	97.11W	-48.	.087	• 441	.20B
8/ 2/77	1342	3:45	370	53.93N	177.58E	-54.	.114	•174	•66	8/ 2/77		9:40	410	51.35N	94.14W		.099	•389	.258
8/ 2/77		3:50	370	54.26N	178.60E	-54•	.130	•186	•70	8/ 2/77				50.67N	92.39W		.081	• 393	.218
8/ 2/77		-		54.60N	179.65E		.120	•185	•65	8/ 2/77			2	49.80N	90.54W		.071	.211	.34B
8/ 2/77				55.55N	177.15W		.104	•165	•63	8/ 2/77		-		48.90N	88.77W		.063	•458	.148
8/ 2/77				56.13N	174.94W		.116	•173	•67	8/ 2/77				48.44N	87.91W		.056	•274	.20B
8/ 2/77				56.93N	171.37W		•046	• 057	70	8/ 2/77				47.98N	87.07W		.082	•428	.198
8/ 2/17				57.41N	169.08W		.222	•286	•78	8/ 2/77				47.52N	86.26W		.079	•419	.198
8/ 2/77				57.87N	166.78W		.208	•222	•94	8/ 2/77	_			47.05N	85.45W		.093	•393	.24B
8/ 2/77				58.28N	164.48W		.311		1.30	8/ 2/77 8/ 2/77			_	46.16N 45.31N	83.87W 82.21W		.052 .058	•301 •281	.17B .21B
8/ 2/77				58.68N	162.36W		.113	•476	•24B	8/ 2/17				44.53N	80.51W				-
8/ 2/77 8/ 2/77				58.71N 58.74N	161.09W 158.58W		.113 .062	•502 •360	•238 •17B	8/ 2/11				43.76N	78.83W		.123 .238	•184 •167	•67 1.43
8/ 2/77				58.75N	157.34W		.094	•404	•238	8/ 2/11			4	43.36N	78.00W		.099	•162	.61
8/ 2/77				59.14N	157.34W		.088	•464	•238 •198	8/ 2/77				42.97N	77.19W		.157	•216	.73
8/ 2/77			-	59.31N	149.66W		.046	•137	•348	8/ 2/77				42.57N	76.39W		.182	•216	.84
8/ 2/77				59.43N	146.91W		.040	165	•24B	8/ 2/77		11:30			75.60W		.128	•170	.75
0/ 2/11	1013	0.10	JyU	J 7 6 4 3 N	*****	-55•	• • • •	•103	4670	8/ 2/77					74.76W		.068	•088	• • •
										0, 2,11	LIJOM	* * * * * *					•000	• • • •	



MAXIMUM VALUES: AMBIENT OZONE= .505 CABIN OZONE= .255 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .95 TOTAL OBS IN CABIN: 95
DATA SOURCE: GASP TAPE VL010, FILE 4
AN "A" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE

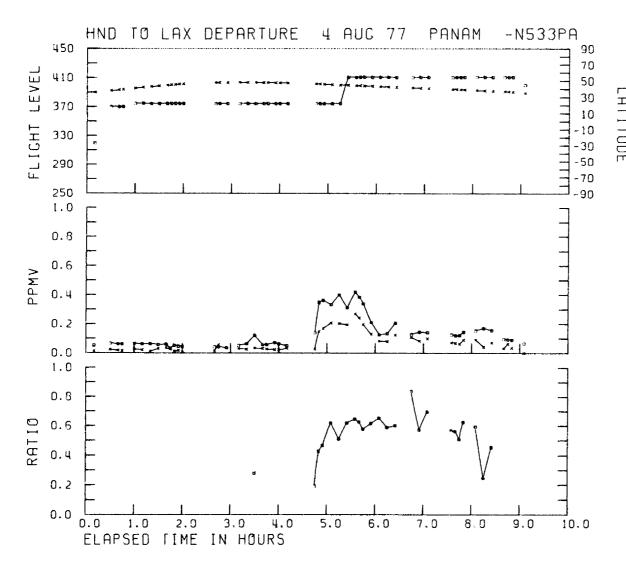
	MO/DA/	/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MONDANA	≀ GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO
	8/ 3/	/77	1640	0.10	224	42.26N	75.37W	- 4 3	.010	•085		8/ 3/7	1 22254	<b>b</b> • 4 5	30 n	62.49N	144.36W	-64	.064	.104	.64
	8/ 3/					43.43N	76.38W	-	.013	•101	•13	8/ 3/7				62.21N	145.71W		.048	•104	.02
	8/ 3/					44.60N	77.45W		.029	•104		8/ 3/7				61.60N	145.42W		.041	•085	
	8/ 3/			_		45.76N	78.55W		.056	•102		8/ 3/7	_			61.42N	149.77W		.046	199	.23
	8/ 3/					46.32N	79.11W		.040	•159	•25	8/ 3/7				61.25N	155.66W		.197	•376	.52
	8/ 3/					46.89N	79.69W		.106	•206	•51	8/ 3/7	_			61.06N	158.62W		.189	•332	.57
	8/ 3/					47.45N	80.27W		.058	•115	•50	8/ 3/7				60.95N	160.05W		.202	•393	.51
	8/ 3/		-			47.98N	80.84W		.083	•176	•47	8/ 3/7				60.81N	161.53W		.255	•440	.58
	8/ 3/					49.02N	81.99W		.149	•269		8/ 3/7				60.48N	162.81W		.253	•414	.61
	8/ 3/		-			49.89N	83.30W	-	.077	•236		8/ 3/7				60.08N	164.01W		.243	•419	.58
	8/ 3/			-		50.68N	84.85W	-	.217	•400	•54	8/ 3/7				58.18N	168.23W		.160	•458	.35
	8/ 3/					51.47N	86.48W	_	.207	•377	•55	8/ 4/7		4 * *		57.17N	170.20W		.131	•376	35
	8/ 3/					51.85N	87.31W		.164	• 325	•50	8/ 4/7				56.36N	172.43W		.167	.417	.40
	8/ 3/					52.22N	88.14W		.163	•353	•46	8/ 4/7	_			55.94N	173.50W		254	-505	50
	8/ 3/					52.58N	88.96W		.174	•323	•54	8/ 4/7		w		55.53N	174.52W		.229	•479	.48
	8/ 3/		_			52.93N	89.79W		.145	•295	•49	8/ 4/7				55.10N	175.54W		.243	452	54
	8/ 3/					53.60N	91.45W		.128	•135	. 95	8/ 4/7	_			54.68N	176.50W		.048	•236	.20
	8/ 3/					54.23N	93.13W		.066	•109	•61	8/ 4/7				53.84N	178.31W		.051	•166	31
	8/ 3/					54.85N	94.91W		.055	•106	•52	8/ 4/7	_			52.99N	179.98E		.035	•073	<b>4 -</b>
			1917M			55.46N	96.72W		.038	•067	_	8/ 4/7	_			52.21N	178.15E		.033	•098	
			1922M			55.76N	97.66W		.108	•161	•67	8/ 4/7	-			51.45N	170.40E		.032	.072	
Ϋ́	8/ 3/	/77	1927M	2:48	350	56.07N	98.60W		.127	.234	•54	8/ 4/7			410	50.27N	174.07E	-59.	.028	.076	
371	8/ 3/	/77	1932M			56.37N	99.56W		.149	•322	•46	8/ 4/7		~ *		49.84N	1/3.26E		.057	.109	.52
	8/ 3/	177	1937M			56.67N	100.54W		.219	• 364	•60	8/ 4/7			411	49.02N	171.75E		.047	•115	.41
	8/ 3/	/77	1946M			57.40N	102.45W		.154	•399	• 39	8/ 4/7	0152M	9:13	411	48.18N	170.30E	-59.	.043	•106	.41
	8/ 3/	177	1955M	3:16	350	58.16N	104.43W	-46.	.222	•431	•52	8/ 4/7	0201M	9:22	411	47.47N	168.75E	-61.	.104	•212	. 49
	8/ 3/	/77	2005M			58.91N	106.54W		.206	•384	•54	8/ 4/7	0210M	9:31	411	46.76N	167.18E	-60.	.113	•193	.59
	8/ 3/	/77	2015M	3:36	350	59.59N	108.74W		.242	•463	•52	8/ 4/7	0215M	9:36	411	46.40N	166.41E	-61.	.109	.194	.56
	8/ 3/	/77	2020M	3:41	350	59.75N	110.01w	-46.	.222	•398	•56	8/ 4/7	0220M	9:41	411	46.04N	165.66E	-63.	.079	•090	
	8/ 3/	/77	2025M	3:46	350	59.91N	111.28W	-46.	.241	•436	•55	8/ 4/7	0225M	9:46	410	45.66N	164.88E	-63.	.028	•061	
	8/ 3/	/77	2030M	3:51	350	60.11N	112.51W	-49.	.162	•422	∙38	8/ 4/7	0230M	9:51	411	45.28N	164.13E	-61.	.058	•134	.43
	8/ 3/	/77	2035M	3:56	350	60.37N	113.72W	-54.	.153	•257	•60	8/ 4/1	0239M	10:00	411	44.52N	162.69E	<del>-</del> 61.	.047	•103	.46
	8/ 3/	/77	2044M	4:05	350	60.83N	116.06W	-56.	•111	•241	•46	8/ 4/7	0249M	10:10	411	43.70N	161.20E	-62.	.026	• 055	
	8/ 3/	/77	2053M	4:14	350	61.28N	118.39W	-55•	.073	• 1 4 0	•52	8/ 4/7	0259M	10:20	411	42.90N	159.72E	-61.	.025	• 052	
	8/ 3/	/77	2102M	4:23	350	61.69N	120.77W	-55.	.045	•074		8/ 4/7	0309M	10:30	430	42.34N	158.10E	-65.	.053	•099	
	8/ 3/	/77	2111M	4:32	390	62.01N	123.26W	-55•	.151	•284	•53	8/ 4/7	0314M	10:35	430	42.05N	157.31E	-65.	.035	•095	
	8/ 3/	/77	2116M	4:37	390	62.16N	124.60W	-56.	.187	•388	•48	8/ 4/7	0319M	10:40	430	41.76N	156.52E	-65.	.033	.088	
	8/ 3/	/77	2121M	4:42	390	62.30N	125.95W	-55.	.100	•432	•23	8/ 4/7	0324M	10:45	430	41.46N	155.74E	-65.	.038	.084	
	8/ 3/	/77	2126M			62.42N	127.30W		.058	• 399	•15	8/ 4/7	0329M	10:50	430	41.16N	154.97E	-64.	.047	•077	
	8/ 3/	177	2131M			62.52N	128.66W		.229	•437	•52	8/ 4/7	0334M	10:55	430	40.85N	154.21E	-64.	.006	.077	
			2140M			62.71N	131.46W		.146	•481	•30	- ,		-		40.20N	152.67E		.057	• 066	
			2150M			62.85N	134.34W		.145	.378	•38	_				39.53N	151.15E		.018	•061	
		-	2200M			62.94N	137.22W		.127	•226	•56	•				38.86N	149.67E	-	.019	.044	
			2210M			62.96N	140.10W		.096	235	•41	•				38.23N	148.16E		.016	-064	
			2215M			62.95N	141.57W		.152	•234	•65					37.90N	147.42E	-63.	.013	•066	
			2220M		_		142.97W		132	.241	•55						146.67E		.016	.044	
	J, J,			J • 71	3,0	0 - 0 1 0 14		00.		~ <u>~</u> ~ ~		, .	1.1			. •					

JFK TO HND (PAGE 2 OF 2) DEPARTURE: 3 AUG 77 AIRCRAFT: PANAM →N533PA

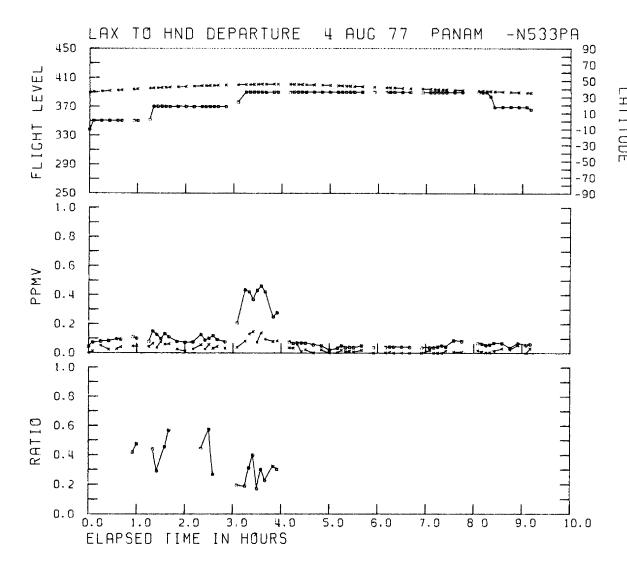
MAXIMUM VALUES: AMBIENT OZONE= .505 CABIN OZONE= .255 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .95 TOTAL OBS IN CABIN: 95
DATA SOURCE: GASP TAPE VL010, FILE 4

AN "A" AFTER THE GMT BELOW DENOTES GMT WISSING ON THE ORIGINAL DATA TAPE

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

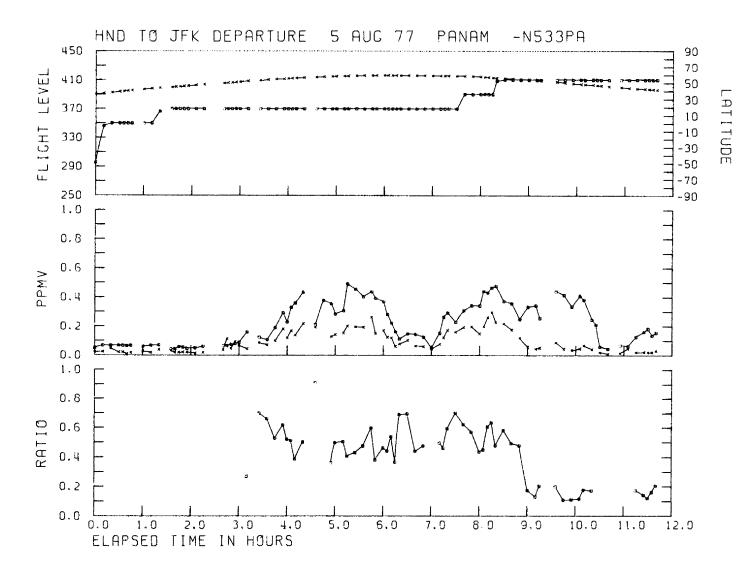


MAXIMUM VALUES: AMBIENT OZONE= .419 CABIN OZONE= .271 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .84 TOTAL OBS IN CABIN: 50 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE



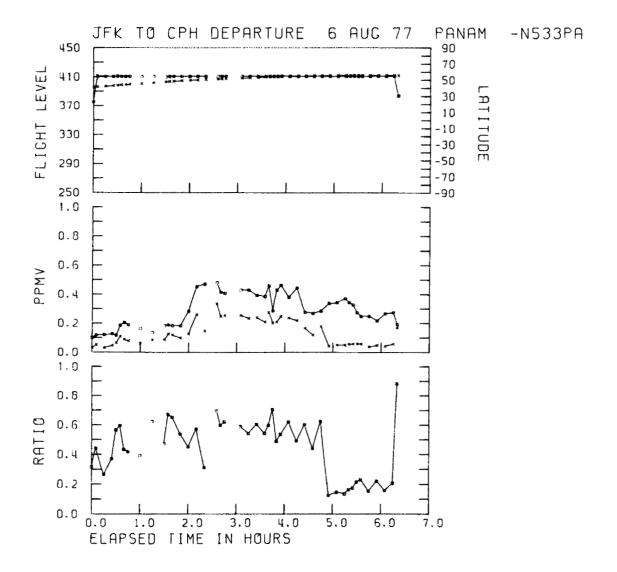
MAXIMUM VALUES: AMBIENT OZONE= .460 CABIN OZONE= .147 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .57 TOTAL OBS IN CABIN: 70 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE

	=					- '		_		_	- 1, 14		-							
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN OZONE		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE ( CABIN		RAT10
	8/ 4/77	0000M	0:00	338	35.48N	120.42W	-46.	.000	•046		8/ 4/77	0427M	4:27	390	45.41N	166.89W	-60.	.008	•069	В
	8/ 4/77	0009M	0:09	350	36.39N	121.55W	-49.	.012	.073		8/ 4/77	0432M	4:32	390	45.30N	167.79W	-60.	.023	•068	8
	8/ 4/77	0018M	0:18	350	37.13N	122.80W	-49.	.051	•080		8/ 4/77	0442M	4:42	390	45.04N	169.66W	-60.	.000	.056	В
	8/ 4/77	0027M	0:27	350	37.69N	124.20W	-49.	.024	-084		8/ 4/77	0452M	4:52	390	44.75N	171.52W	-60.	.022	.050	В
	8/ 4/77	0036M	0:36	350	38.29N	125.59W	-49.	.029	•097		8/ 4/77	0502M	5:02	390	44.42N	173.38W	-59.	.000	.021	В
	8/ 4/77	0041M	0:41	350	38.58N	126.30W	-49.	.041	• 094		8/ 4/77	0512M	5:12	390	44.07N	175.20W	-59.	.004	.034	В
	8/ 4/77	0055M	0:55	350	39.43N	128.44W	-49.	.047	•112	•42	8/ 4/77	0517M	5:17	390	43.88N	176.13W		019	.051	ㅂ
	8/ 4/77	0104M	1:04	350	39.98N	129.92W	-50.	.048	•101	•48	8/ 4/77	0522M	5:22	390	43.67N	177.08W		.011	•038	ម
	8/ 4/77	0118M	1:18	352	40.80N	132.25W	-52.	.044	•080		8/ 4/77	0527M	5:27	390	43.46N	178.02W	-58.	.012	.040	В
	8/ 4/77	0123M	1:23	370	41.06N	133.05W	-54.	.066	•150	• 4 4	8/ 4/77	0532M			43.24N	178.95W		.007	•038	8
	8/ 4/77	0128M	1:28	370	41.33N	133.88W	-54.	.037	.127	•29	8/ 4/77	0542M	5:42	390	42.86N	179.18E		.019	.050	В
	8/ 4/77	0133M	1:33	370	41.58N	134.69W	-54.	.076	•098		8/ 4/77	0557M	5:57	390	42.37N	176.38E		.000	•039	В
	8/ 4/77	0138M	1:38	370	41.83N	135.53W	-55.	.060	•132	• 45	8/ 4/77	0613M	6:13	390	41.61N	173.61E		.002	.040	8
	8/ 4/77	0143M	1:43	370	42.08N	136.39W	-54.	.063	•111	•57	8/ 4/77	0618M	**		41.61N	172.70E		.004	•043	В
	8/ 4/77	0153M	1:53	370	42.55N	138.12W	-55.	.026	•079		8/ 4/77	0623M	6:23	390	41.40N	171.80E	-5/.	.000	.042	В
	8/ 4/77	0203M	2:03	370	43.00N	139.92W	-55.	.012	•073		8/ 4/77	0634M	6:34	390	40.96N	170.00L	-57.	.000	.042	В
	8/ 4/77	0213M	2:13	370	43.42N	141.67W	-55.	.028	• 075		8/ 4/77	0644M	6:44	390	40.66N	168.16E	-56.	.000	.040	В
	8/ 4/77	0223M	2:23	370	43.81N	143.44W	-56•	.050	•126	• 4 4	8/ 4/77	0655M	6:55	390	40.34N	166.32E	-56.	.001	•039	8
	8/ 4/77	0228M	2:28	370	44.00N	144.31W	-58•	.027	•089		8/ 4/77	0706M	7:06	390	39.98N	164.49E	-56.	.019	•039	8
	8/ 4/77	0233M	2:33	370	44.17N	145.18W	-58•	.058	-101	•57	8/ 4/77	0711M	7:11	390	39.79N	163.58E	-56.	.000	•038	В
	8/ 4/77	0238M	2:38	370	44.35N	146.07₩	-56.	.032	•119	•27	8/ 4/77	0716M	7:16	390	39.59N	162.67E	-56.	.000	.044	В
_	8/ 4/77	0243M	2:43	370	44.51N	146.94W	-57.	.044	• 092		8/ 4/77	0721M			39.39N	161.77E	-56.	.000	.052	В
Ü	8/ 4/77	0252M	2:52	370	44.81N	148.67W	-58•	.032	•077		8/ 4/77	0726M	7:26	390	39.17N	160.87E	-55.	.015	.044	8
77	8/ 4/77		3:06	376	45.19N	151.22W	-58.	.040	•206	•19	8/ 4/77	0737M	7:37	390	38.81N	159.07E	-55.	.008	.087	в
	8/ 4/77		3:15	390	45.42N	153.01W	-51.	.082	•435	•19B	8/ 4/77	0748M	1:48	390	38.50N	157.27E	-54.	.007	-082	В
	8/ 4/77	0320M	3:20	390	45.52N	153.93W	-48.	.131	•421	•31B	8/ 4/77	0809M	8:09	390	37.79N	153.70E	-52.	.017	•068	В
	8/ 4/77		3:25	390	45.61N	154.86W	-48.	.147	•369	•40B	8/ 4/77	0814M	8:14	390	37.60N	152.82E	-52.	.008	.064	В
	8/ 4/77		3:30	390	45.70N	155.78W	-47.	.074	•431	•178	8/ 4/77	0819M	8:19	390	37.40N	151.95E	-53.	.004	.055	В
	8/ 4/77		3:35	390	45.78N	156.71W	-48.	.138	•460	•30B	8/ 4/77	0824M	8:24	384	37.20N	151.10E	-51.	.004	∙058	
	8/ 4/17		3:44	390	45.91N	158.59W	-49.	.096	•421	• 23B	8/ 4/77	0829M	8:29	370	36.99N	150.21E	-46.	.015	.069	
	8/ 4/77				45.97N	160.46W	-53.	.080	•248	•32B	8/ 4/77	0839M	8:39	370	36.66N	148.47E	-46.	.031	•068	
	8/ 4/77	-			45.91N	161.38W	-58.	.084	•278	•30B	8/ 4/77	0849M	8:49	370	36.34N	146.79E	-46.	.026	•036	
	8/ 4/77		4:12	390	45.69N	164.16W	-60.	.036	•077	B	8/ 4/77	0859M	8:59	370	35.99N	145.14E	-46.	.054	.068	
	8/ 4/77	· .			45.61N	165.05W		.034	•066	8	8/ 4/77	0909M			35.64N	143.52E	-46.	.001	• 056	
	8/ 4/77	0422M	4:22	390	45.51N	165.98W	-60.	.059	•070	В	8/ 4/77	0914M	9:14	366	35.51N	142.71E	-46.	.032	•062	



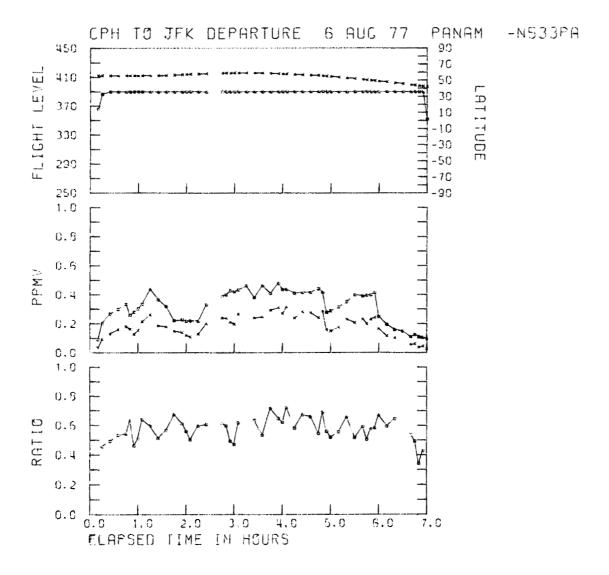
MAXIMUM VALUES: AMBIENT OZONE= .491 CABIN OZONE= .296 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .91 TOTAL OBS IN CABIN: 81
DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE

				,	<b>-</b> .		_				-	_							
MO/DA/YR	R GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PMV) AMB.	RAT10
8/ 5/77	. 0000	0.00	205	36.55N	142.75E	-27	.024	•051		8/ 5/77	0601M	6:01	370	59.65N	146.12W	-54.	.171	•370	.46
8/ 5/77				37.29N	144.34E		.025	•067		8/ 5/77	_			59.65N	144.81W		.124	•281	44
8/ 5/77				38.36N	145.69E		.046	•066		8/ 5/77				59.64N	143.51W		.120	•223	54
8/ 5/77				39.42N	147.08E		.021	•067		8/ 5/77				59.61N	142.18W		.060	•164	.37
8/ 5/77				39.94N	147.79E		.022	•066		8/ 5/77	0621M	6:21	370	59.56N	140.83W	-60.	.078	•113	.69
8/ 5/77				40.45N	148.51E		.009	• 064		8/ 5/77	0631M	6:31	370	59.53N	138.12W	-60.	.103	•148	.70
8/ 5/77	0047M	0:47	350	40.96N	149.25E	-41.	.017	•066		8/ 5/77	0641M	6:41	370	59.54N	135.44W	<b>-</b> 58.	.064	•145	.44
8/ 5/77	0103M	1:03	350	42.40N	151.54E	-41.	.028	-061		8/ 5/77	0651M	6:51	370	59.49N	132.75W	-59.	.060	•126	.48
8/ 5/77	' 0113M	1:13	350	43.30N	153.14E	-41•	.018	•067		8/ 5/77	0701M	7:01	370	59.39N	130.09W	-60.	.045	•051	
8/ 5/77				44.19N	154.81E		.038	•069		8/ 5/77				59.25N	127.44W		.076	•153	.50
8/ 5/77				45.04N	156.52E		.032	• 043		8/ 5/77				59.16N	126.14W		.122	•264	.46
8/ 5/77				45.45N	157.37E		.020	•043		8/ 5/77				59.06N	124.84W		.174	•293	.59
8/ 5/77				45.86N	158.26E		.020	•057		8/ 5/17				58.86N	122.26W		•161	•230	.70
8/ 5/77		-		46.27N	159.16E		.021	•054		8/ 5/77				58.74N	119.56W		.192	•30₺	•6∉
8/ 5/77				46.68N	160.09E		.020	• 046		8/ 5/77 8/ 5/77			_	58.55N	116.94W		.196	•343	•57
8/ 5/77 8/ 5/77				47.56N	161.92E		.013	•049		8/ 5/17	_			57.83N 57.45N	114.57W 113.42W		-149	•341	.44
8/ 5/77				48.41N 50.03N	163.81E 167.82E		.020	•060 •067		8/ 5/77	-	-		57.45N	112.29W		.198 .261	•440 •431	.45 .61
8/ 5/77				50.41N	168.87E		.113	•065		8/ 5/77				56.65N	111.18w		.296	•466	.64
8/ 5/77				50.78N	169.92E		.047	•074		8/ 5/77				56.36N	109.97W		.228	•477	48
8/ 5/77				51.22N	170.87E		091	•079		8/ 5/77				55.76N	107.60W		.217	•373	58
8/ 5/77				51.67N	171.81E		.067	-088		8/ 5/77				55.11N	105.28W		.176	•357	49
£ 8/ 5/77				52.56N	173.79E		.043	•160	•27	8/ 5/77				54.52N	102.93W		.119	.249	468
8/ 5/77				53.40N	176.04E		.086	123	• 70	8/ 5/77				53.88N	100.63W		.058	•334	178
8/ 5/77			_	54.19N	178.42E		.070	•106	•66	8/ 5/77	0914M	9:14	410	53.11N	98.50W	-46.	.045	.343	.13B
8/ 5/77	0349M	3:49	370	54.97N	179.09W	-48.	.100	•189	•53	8/ 5/77	0919M	9:19	410	52.72N	97.48W	-47.	.052	•257	.208
8/ 5/77	0355M	3:55	370	55.34N	177.81W	-47.	.181	•293	•62	8/ 5/77	0935M	9:35	410	51.45N	94.44₩	-48.	.088	• 441	.50B
8/ 5/77	0401M	4:01	370	55.69N	176.51W	-45.	.120	•230	•52	8/ 5/77	0946M	9:46	410	50.47N	92.61W	-48.	.045	•415	.11B
8/ 5/77	0407M	4:07	370	56.01N	175.27W	-45.	.169	•330	•51	8/ 5/77	0957M	9:57	410	49.48N	90.85W	-48.	.037	•336	.118
8/ 5/77	0413M	4:13	370	56.31N	174.02W	-45.	.139	• 359	• 39	8/ 5/77					88.85W	-50.	.047	•410	•11B
8/ 5/77				56.88N	171.49W		.218	•434	•50	8/ 5/77					87.87W		.067	•382	.188
8/ 5/77				57.41N	168.93W		.193	•212	•91	8/ 5/77					86.88W		.042	•246	.17B
8/ 5/77				57.92N	166.36W			•378		8/ 5/77					85.86W			•211	
8/ 5/77				58.38N	163.74W		.129	• 355	•36	8/ 5/77					84.88W		.021	•060	8
8/ 5/77				58.58N	162.43W		.142	•285	•50	8/ 5/77					82.96W		.010	•045	В
8/ 5/77				58.91N	159.71W		.155	•307	•50	8/ 5/77					81.22W		.016	•068	В
8/ 5/77				59.05N	158.33W		.200	•491	•41	8/ 5/77					79.46W		• 047	•063	17B
8/ 5/77				59.28N	155.58W		.196	• 456	•43	8/ 5/77					77.63W		.022	•127	.17B
8/ 5/77				59.46N	152.84W		.192	•404	• 48	8/ 5/77					76.74W 75.87W		.023 .022	•162	.148
8/ 5/77				59.58N	150.11W		.261	•437	•60	8/ 5/77					75.01W		.022	•183	.128 .168
8/ 5/77	ODDIM	2:21	310	59.62N	148.79W	-46.	.150	• 394	•38	8/ 5/77					74.16W			•137	
										8/ 5/77	1141M	11:41	4 I O	+1 * D T W	14.TOM	-00.	.032	•156	.21



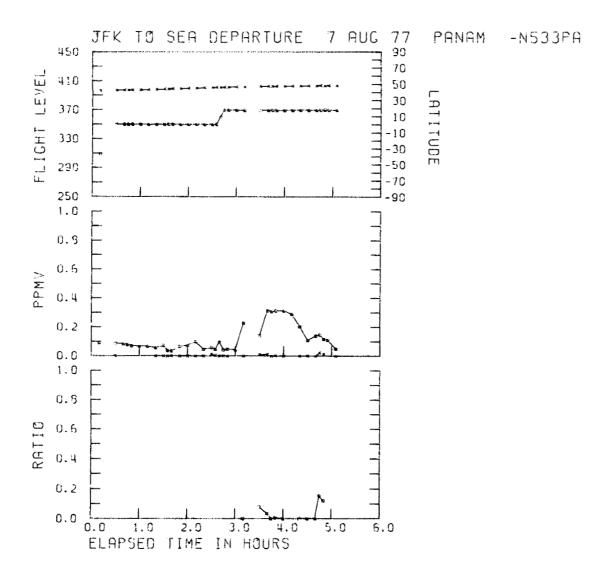
MAXIMUM VALUES: AMBIENT OZONE= .481 CABIN OZONE= .335 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .88 TOTAL OBS IN CABIN: 45 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RAT10	MOZPAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE CABIN		RATIO
B/ 6/77	0000M	0:00	375	40.94N	71.37W	-53•	.032	•101	•32	8/ 6/77	0327M	3:27	411	53.44N	33.45₩	-52.	.238	•394	.60
8/ 6/77	0009M	0:03	411	41.58N	69.89W	-62.	.052	•118	• 44	8/ 6/77	0338M	3:38	411	53.85N	31.02W	-50.	.209	•385	.54
8/ 6/77	0019M	0:19	411	42.38N	68.50W	-62.	.032	•121	•26	8/ 6/77	0343M	3:43	411	54.03N	29.80W	-50.	.275	•460	.60
8/ 6/77	0029M	0:29	411	43.15N	67.08W	-63.	.047	•127	•37	8/ 6/77	0348M	3:48	411	54.19N	28.58W	-48.	.202	.287	.70
8/ 6/77	0034M	0:34	411	43.54N	66.34W	-62•	.066	•117	•56	8/ 6/77	0.353M	3:53	411	54.35N	27.37W	-50.	.210	•430	.49
8/ 6/77	0039M	0:39	411	43.94N	65.56W	-59.	.110	•185	•59	8/ 6/77	0358M	3:58	411	54.49N	26.15W	-49.	.248	•463	•54
8/ 6/77	0 Ú 4 4 M	0:44	411	44.35N	64.74W	-58.	.089	•205	•43	8/ 6/77	0409M	4:09	411	54.73N	23.68W	-49.	•236	•381	.62
8/ 6/77	0049M	0:49	411	44.76N	63.88W	-58•	.079	•189	•42	8/ 6/77	0419M	4:19	411	54.92N	21.26W	-47.	.218	•444	.49
8/ 6/77			411	45.58N	62.21W	-62•	.064	•163	•39	8/ 6/77	0429M	4:29	411	55.16N	18.83W	-46.	.166	•276	.60
8/ 6/77		_	411	46.79N	59.66W	-62•	.085	•136	•63	8/ 6/77				55.39N	17.03W	-47.	.118	•268	.44
8/ 6/77	-		410	47.94N	56.99W	-63•	.087	•184	• 47	E/ 6/77	0447M	4:47	411	55.65N	14.58W	-46.	•177	•284	.62
8/ 6/77			411	48.31N	56.07W	-62•		•188		8/ 6/77				55.86N	12.05W		.042	•337	.128
8/ 6/77			411	48.65N	55.18W			•183		8/ 6/77				55.99N	9.51W		.050	•343	.15B
8/ 6/77			411	49.13N	53.67W	-64•	.098	•182	• 54	1/6/77	0517M	5:17	411	56.01N	6.95W		.050	•370	.14B
8/ 6/77			411	49.64N	51.57W	-61.	.127	•282		8/ 6/77				56.00N	5.67W		.056	•343	.168
8/ 6/77				50.13N	49.46W					8/ 6/77				55.98N	4.39W		-	• 327	.17B
8/ 6/77				50.64N	47.29W			•470		8/ 6/77	-			55,94N	3.08W		-	•275	.21B
8/ 6/77				51.34N	43.88W		.335	•481	•70	8/ 6/77				55.88N	1.85W		.057	•248	.23B
8/ 6/77				51.55N	42.74W			•415	•60	8/ 6/77		~	_	55.89N	•71E		.038	•248	.15B
8/ 6/77	0249M	2:49	411	51.74N	41.62W	-54•	.253	•408	•62	8/ 6/77				55.85N	3.31E		.048	•218	.22B
8/ 6/77				52.44N	38.19W	-54•			•59	8/ 6/77		4.5		55.83N	5.84E		•042	•267	.16B
8/ 6/77	0316M	3:16	411	52.99N	35.84W	-53•	.233	•430	•54	8/ 6/77				55.81N	8.40E			•275	_
> 0										8/ 6/77	0623M	6:23	384	55.78N	9.68E	-57.	.171	•194	.88



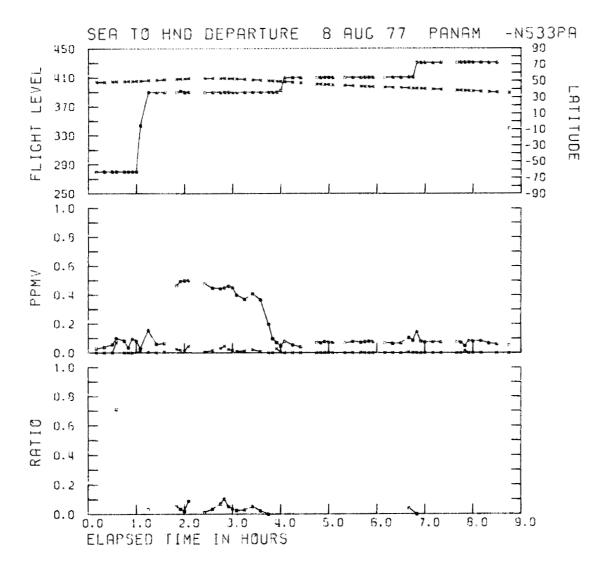
MAXIMUM VALUES: AMBIENT OZONE= .479 CABIN OZONE= .315 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .72 TOTAL OBS IN CABIN: 51 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	CARIN OZONE (		RATIO	MOZĐAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO
8/ 6/77 8/ 6/77	1212 1217 1237 1247 1252 1257 1302 1307 1317 1327 1347 1357 1402 1407 1417 1447 1452	HR:MN 0:10 0:15 0:25 0:45 0:56 1:00 1:05 1:15 1:25 1:45 1:35 2:00 2:05 2:15 2:45	3666 3866 3900 3900 3900 3900 3900 3900 3900 39	55.67N 55.72N 55.72N 55.87N 55.93N 55.93N 55.95N 56.01N 56.02N 56.02N 56.06N 57.15N 57.37N 57.37N 57.37N 57.97N 58.80N 58.98N	9.14E 8.07E 5.80E 3.48E 1.17E	(C) -5855514949484846474748484846.	CABIN .036 .092 .131 .159 .164 .129 .155 .261 .187 .181 .149 .122 .110 .130	AMB • 090 • 202 • 267 • 299 • 334 • 259 • 280 • 303 • 336 • 438 • 365 • 319 • 227 • 218 • 219	.46 .49 .53 .54 .63 .46 .51 .64 .651 .57 .67 .61 .50 .60	8/ 6/77 8/ 6/77	1547 1557 1602 1617 1627 1637 1647 1652 1712 1712 1712 1742 1747 1752 1812	3344444455555555566	390 390 390 390 390 390 390 390 390 390	58.63N 58.18N 57.95N 57.70N 56.28N 55.10N 55.50N 55.69N 55.69N 53.87N 50.91N 50.91N 50.93N 49.85N 49.85N 49.85N 49.85N 49.85N 49.85N 49.85N 49.85N 49.85N 49.85N 49.85N	42.44W 44.82W 45.97W 47.11W 51.62W 53.82W 55.94W 57.81W 57.81W 60.00W 61.53W 64.12W 64.67W 65.21W 67.18W 68.11W	(C) -49494949495154555151252.	.293 .310 .271 .315 .238		
8/ 6/77 8/ 6/77 8/ 6/77 8/ 6/77 8/ 6/77	1502 1507 1517 1527	3:00 3:05 3:15 3:25	390 390 390 390	59.04N 59.07N 59.11N 59.09N 59.02N	30.95W 32.23W 34.82W 37.43W 39.99W	-46 • -46 • -47 • -48 •	.198 .267	•421 •433 •462	•47 •62 •63	8/ 6/77 8/ 6/77 8/ 6/77 8/ 6/77 8/ 6/77 8/ 6/77	1832 1842 1847 1852 1857	6:30 6:40 6:45 6:50 6:55	390 390 390 390 389	45.64N 44.52N 43.94N 43.35N 42.74N 42.15N	69.01W 69.90W 70.35W 70.81W 71.27W 71.71W	-54. -55. -57. -56.	.059 .061 .038	•148 •110 •124 •111 •105 •096	.54 .49 .34 .43



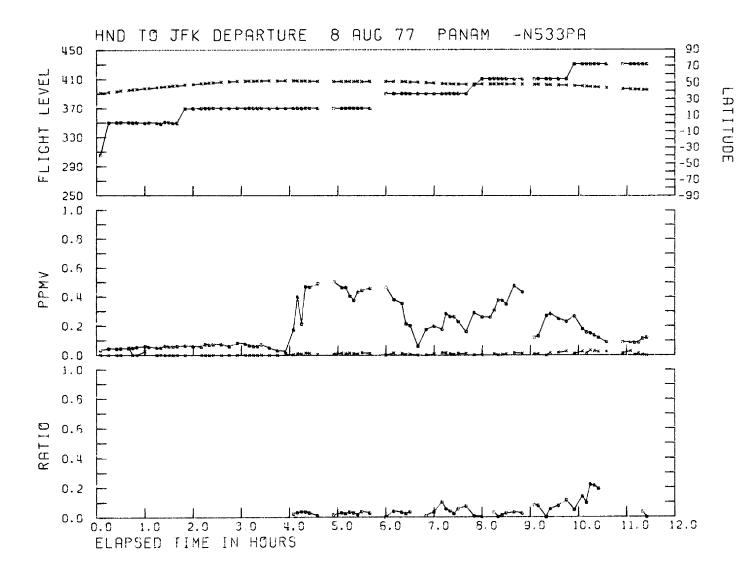
MAXIMUM VALUES: AMBIENT OZONE= .314 CABIN OZONE= .022 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .15 TOTAL OBS IN CABIN: 26 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV (C) CABIN AMB		GMT ETIM HR:MN	FL LAT	LONG TEMP	OZONE (PPMV) CABIN AMB	
8/ 7/77 1658 8/ 7/77 1719 8/ 7/77 1728	0:10 309 41.70N 0:31 350 42.30N 0:40 350 42.49N	75.63W -35000 .08 78.81W -47000 .08 80.38W -4708	5 8/ 7/77	1933 2:45	360 46.07N 370 46.19N 370 46.31N	98.41W -51. 99.18W -53. 99.94W -54.	.000 .098 .000 .043	3
8/ 7/77 1733 8/ 7/77 1738 8/ 7/77 1748	0:45 350 42.58N 0:50 350 42.66N 1:00 350 42.81N	81.16W -47	6 8/ 7/77 9 8/ 7/77	1949 3:01 1959 3:11	370 46.53N 370 46.73N 370 47.33N	101.47W -54. 102.98W -53. 100.07W -53.	•042	7 .00
8/ 7/77 1758 8/ 7/77 1808 8/ 7/77 1819	1:10 350 42.94N 1:20 350 43.36N 1:31 350 43.78N	85.09w -4606 86.49w -47000 .05 87.97w -48000 .07	7 8/ 7/77 6 8/ 7/77	2028 3:40 2033 3:45	370 47.44N 370 47.50N 370 47.54N	107.73W -54. 108.58W -53. 109.46W -54.	.011 .314 .000 .308	.04
8/ 7/77 1824 8/ 7/77 1829 8/ 7/77 1839	1:36 350 43.98N 1:41 350 44.17N 1:51 350 44.54N	88.72w -49000 .03 89.46w -50000 .03 90.92w -49000 .06	7 8/ 7/77 5 8/ 7/77	2048 4:00 2058 4:10	370 47.61N 370 47.72N	111.23w -55. 113.05w -55.	.000 .313	3 .00
8/ 7/77 1849 8/ 7/77 1859 8/ 7/77 1908	2:01 350 44.89N 2:11 350 45.22N 2:20 350 45.53N	92.42w -49000 .07 93.94w -49000 .09 95.44w -50000 .04	4 8/ 7/77 8 8/ 7/77	2118 4:30 2128 4:40	370 48.04N 370 48.17N 370 48.19N	116.79W -56. 118.77W -58.	.000 .10a	3 .00 3 .00
8/ 7/77 1918 8/ 7/77 1923	2:30 350 45.80N 2:35 350 45.94N	96.90W -51013 .05 97.65W -50003 .04	8 8/ 7/77	2138 4:50 2143 4:55	370 48.18N 370 48.24N 370 48.33N		•014 •116 •110	.12



MAXIMUM VALUES: AMBIENT OZONE= .501 CABIN OZONE= .071 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .10 TOTAL OBS IN CABIN: 61 DATA SOURCE: GASP TAPE VL010, FILE 4

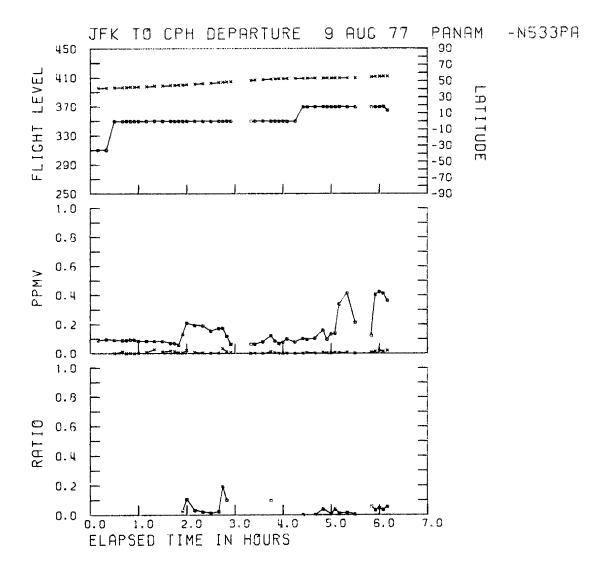
М	<b>0/</b> D	A/YR	GMT	ETIM HR:MN	FL	LAT	LUNG		CABIN OZONE (		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE( CABIN		RATIO
	8/	8/77	0010	0:10	280	48.28N	125.51W	-36•	.000	• 028		8/ 8/77	0415	4:15	410	48.27N	174.78w		.000	•054	
			0020			48.33N	127.59W		.000	•038		8/ 8/77	0425	4:25	410	47.59N	176.45W	-62.	.000	.041	
			0030	0:30	280	48.90N	129.42W	-36.	.000	•057		8/ 8/77	0445			46.14N			.000	•072	
			0035	0:35	280	49.05N	130.44w	-36.	.071	•100		8/ 8/77	0450			-	179.44E		.000	• 069	
	8/	8/77	0045	0:45	280	44.32N	132.52W	-35.	.000	•082		8/ 8/77	0455				178.56E		.001	•077	
	8/	8/77	0050	0:50	280	49.44N	133.58W	-34.	.000	•035		8/ 8/77	0500				177.68E		.000	•074	
			0055	0:55	280	49.54N	134.64W	-33.	.000	• 096		8/ 8/77					176.80E		•000	•072	
	8/	8/77	0100	1:00	280	49.64N	135.71W	-33.		-082		8/ 8/77				44.41N	174.22E		.000	•071	
	8/	8/77	0105	1:05	344	49.89N	136.71W	-49.	.011	• 029		8/ 8/77					172.52L		.000	•079	
	8/	8/77	0115	1:15	390	50.46N	138.63W	-60.	.005	•154	•03	8/ 8/77				43.29N	170.82E		.002	•072	
	8/	8/77	0125	1:25	390	51.00N	140.58W	-60.	.000	•061		8/ 8/77				43.00N	169.99E		.000	•077	
	8/	8/77	0135	1:35	390	51.52N	142.64W	-59.	.006	• 065		8/ 8/77				42.85N	169.07E			.080	
	8/	8/77	0150	1:50	390	52.24N	145.87W	-48.	.024	• 465	• 05	8/ 8/77				42.71N	168.16E			.077	
	8/	8/77	0155	1:55	392	52.49N	146.95W	-45.	.017	• 494	•03	8/ 8/77				42.22N	165.51E			•069	
	8/	8/77	0200	2:00	390	52.68N	148.05W	-43.	.010	• 499	•02	8/ 8/77				41.87N	163.77E			• 065	
	8/	8/77	0205	2:05	390	52.87N	149.18W	-43.	.045	•501	•09	8/ 8/77				41.50N	162.07E		.000	•069	
	8/	8/77	0225	2:25	390	53.10N	153.76W	-43.	.006	• 479	• 0 1	8/ 8/77				41.10N	160.41E		• 0 0 4	•105	.04
	8/	8/77	0235	2:35	390	53.10N	156.00W	-42.	.015	• 447	•03	8/ 8/77				40.90N	159.60E		.002	•086	- 0
	8/	8/77	0245	2:45	390	53.06N	158.24W	-44.	.031	• 444	•07	8/ 8/77				40.69N	158.78E		•000	•146	.00
	8/	8/77	0250	2:50	390	53.02N	159.35W	-44.	.046	• 449	• 10	8/ 8/77			-	40.47N	15/.94E		.000	.081	
	8/	8/77	0255	2:55	390	52.90N	160.46W	-44.	.024	•460	• 05	8/ 8/77				40.25N	157.12E			-074	
	8/	8/77	0300	3:00	390	52.64N	161.46W	-44.	.016	•450	• 04	8/ 8/77				39.80N	155.53E			•078	
P.	8/	8/77	0305	3:05	390	52.38N	162.47W	-44.	.010	• 398	•03	8/ 8/77				39.33N	153.99E			• 075	
87	8/	8/77	0315	3:15	390	51.84N	164.40W	-44.	.011	•370	•03	8/ 8/77				38.34N	150.98E			•079	
	8/	8/77	0325	3:25	390	51.27N	166.27W	-45.	.021	•407	• 05	8/ 8/77				38.08N	150.24E			•073	
	8/	8/77	0335	3:35	390	50.69N	168.05W	-50.	.008	• 366	• 02	8/ 8/77				37.84N	149.47E			•048	
	8/	8/77	0345	3:45	390	50.10N	169.72W	-55.	.000	•197	• 0 0	8/ 8/77				37.63N	148.75E			.083	
	8/	8/77	0350	3:50	390	49.80N	170.59W	-55•	.000	• 097		8/ 8/77				37.39N	148.00E		_	.081	
	8/	8/77	0355	3:55	390	49.51N	171.45W	-57.	.028	•072		8/ 8/77				36.92N	146.52E			•085	
	8/	8/77	0400	4:00	393	49.20N	172.32W	-58•	.004	• 047		8/ 8/77				36.43N	145.06E			• 067	
	8/	8/77	0405	4:05	410	48.90N	173.15W	-61.	.000	-081		8/ 8/77	-	0.1		35.92N	143.64E			•061	
			_									8/ 8/77	0845	8:45	340	35.30N	141.47E	-38.	•000	• 052	



MAXIMUM VALUES: AMBIENT OZONE= .506 CABIN OZONE= .052 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .22 TOTAL OBS IN CABIN: 85
DATA SOURCE: GASP TAPE VL010. FILE 4

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

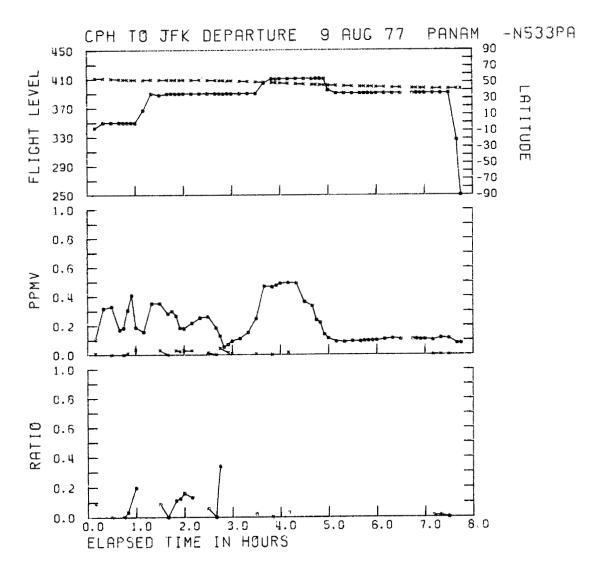
ı	40/D	A/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMB•	RATIO	MOZDA	.∠YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE ( CABIN		RATIO
	8/	8/77	1123	0:05	306	37.03N	142.15E	-28.	.000	•034		8/8	/77	1651	5:33	370	51.14N	150.05W	-46.	.017	• 445	.04
	8/	8/77	1133	0:15	350	37.94N	143.61E		.000	• 044		8/8	177	1701	5:43	370	51.18N	147.83W	-46.	.013	•459	.03
	8/	8/77	1144	0:26	350	38.87N	145.15E	-41.	.000	•043		8/8	/77	1721	6:03	390	51.20N	143.34W	-47.	.000	•469	.00
	8/	8/77	1152A	0:34	350	39.65N	146.52E	-42.	.000	• 045		8/8	177	1731			51.15N	141.08W	-49.	.015	•381	. 0'4
	8/	8/77	1202	0:44	350	40.55N	148.13E	-43.	.052	•046		8/8	177	1741	6:23	390	51.01N	138.95W	-56.	.012	• 355	.03
	8/	8/77	1207A	0:49	350	41.00N	148.98E	-43.	.001	•050		8/8	177	1746	6:28	390	50.82N	137.91W	-58.	•005	•214	.02
		8/77		0:54	350	41.47N	149.88E	-43.	.000	• 054		8/8	177	1751	6:33	390	50.62N	136.91W		•007	•203	.03
		8/77		1:04	350	42.42N	151.48E	-44.	.025	•061		_	177				50.21N	134.97W	-60.	.000	•060	
		8/77	_	-		42.82N	152.17E			•056				1811		_	49.75N	133.01W		.002	•176	.01
			1235A	1:17	350	43.63N	153.60E		.000	•051		_	•	1821	4 4 4 4		49.21N	131.12W		.007	•199	.04
			1240A	1:22	349	44.15N	154.57E	-45•	.002	•050		_	* /	1831			48.71N	129.20W	-57.	.018	•178	.10
			1245A	-		44.52N	155.38E		.000	•062			•	1836			48.44N	128.23W		.016	•285	.06
			1250A			45.06N	156.41E		.000	• 059			177				48.16N	127.26W		.011	•265	• 04
			1256			45.58N	157.45E		.000	• 059			-	1845			48.04N	126.24W		.006	•263	.02
			1301A			45.98N	158.32E		.000	•061		_	•	1851			47.92N	125.24W		.013	•230	.06
		8/77			-	46.95N	160.06E		.000	• 065		-	/77				47.74N	123.24W		.012	•161	•0/
		8/77	_			47.71N	162.04E			•061			•	1911			47.88N	121.28M		•002	•291	.01
		8/77	-	_		48.57N	163.99E		.001	•058			•	1921			48.00N	119.06W		.001	•261	•00
		8/77				48.96N	164.95E	-	.000	• 074			-	1931		+ +	48.07N	116.93W			•262	
		8/77	_			49.36N	165.95E		.000	•071				1936			48.10N	115.86W		.010	•307	.03
		8/77	_			49.74N	166.92E		.000	•074		_	•	1941			48.11N	114.80W		.001	•379	.00
<b>&gt;</b>		8/77	_			50.48N	168.97E		.000	• 0.75			•	1946			48.12N	113.73W		.005	•376	10.
ယ့်		8/77	-			51.03N	171.23E		.000	•060				1951	1.4 W par 1		48.11N	112.65W		•009	• 351	.03
8		8/77				51.35N	173.56E		.001	•083			/77				48.07N	110.46W		.016	•477	د0.
		8/77		-	_	51.63N	175.91E		.000	•078			/77				47.98N	108.23W		.011	•434	.03
	_	8/77	-			51.76N	177.13E		.001	• 066				2026	and the second second		47.75N	104.81W		.010	•123	.08
		8/77	_		-	51.72N	178.13E		.000	•061				2031			47.65N	103.71W		.010	•131	.08
		8/77	-	-		51.90N	179.32E		.000	•060		-	177	_			47.42N	101.49W		•000	•271	.00
		8/77				52.02N	179.46W		.001	•073			-	2046			47.30N	100.41W		•016	•285	.06
		8/77 8/77				52.09N 52.10N	176.97W		.000	•051			•	2056 2106			46.67N	98.21W 95.99W		.019	•250	.08
		8/77				52.10N	174.51W 172.05W		.000	•032 •027				2116		4 .	46.28N	93.78W		.026 .013	•231	•14, •05
		8/77				51.98N	169.60W		.004	•174	• 02			2116		44	45.77N	91.71W		.025	•267 •180	.14
		8/77	-			51.90N	168.37W		.013	•174	•02	_	777	-			45.45N	90.73W		.015	•156	.10
		8/77	-		-	51.90N	167.16W		.008	•214	•04		-	2136			45.11N	89.75W		.033	•150	.22
		8/77				51.70N	165.98W		.017	•470	•04	_	177		-		44.76N	88.78W		.029	•136	.21
		8/77				51.70N	164.77W		.014	•469	•03			2146			44.41N	87.82W		.023	•120	.19
		8/77				51.33N	162.47W		.006	_	•01		· .	2156			43.67N	85.94W		.025	•090	• 1 -
		8/77	_		-	51.33N 51.16N	157.97W	_	.009	•492 •506	•01	_	· .	2216			42.28N	82.21W		.014	•090	
		8/77		_		51.21N	155.67W	. — -	.014		•03	-	•	2226			41.93N	80.22W		.028	•089	
			_ ,	-					.014	•465			777			-	41.75N	79.25W		.005	•085	
		8/77				51.22N	154.54W			• 465	•02		-	2236			41.75N	78.29W		.014		
		8/77				51.22N	153.38W		.014	•407	•03 •03	_	777	_	-,		41.32N	77.32W		.004	•087 •114	.04
		8/77	_		-	51.20N	152.29W		.011	• 376			•	2246			41.10N	76.42W		.000	•114	.00
	0/	8/77	1040	5.48	310	51.18N	151.17W	-45.	.008	• 435	•02	0/8	711	2240	11.50	750	41 0 1 0 IA	100421	.0.5	• • • •	4 1 C U	• 0 0



MAXIMUM VALUES: AMBIENT OZONE= .423 CABIN OZONE= .033 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .19 TOTAL OBS IN CABIN: 45 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

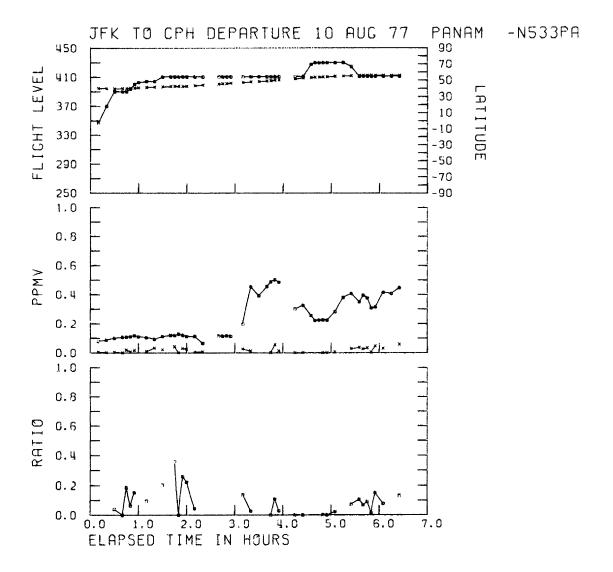
MO	/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPI CABIN AI		RATIO	MO/na/	YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO
8	/ 9/77	0226	0:10	310	41.03N	70.97W	<b>-35</b> •	• (	089		8/ 9/					50.70N	31.22W		.000	•064	
8	/ 9/77	0236	0:20	310	41.48N	68.99W	-36.	• (	096		8/ 9/	77 (	0543A			51.12N	29.52W	-55.	.000	•063	
8	/ 9/77	0246	0:30	350	41.83N	66.99W	-46.	.000	090		8/ 9/	77 (	0553			51.68N	27.13W		•000	•079	
8	/ 9/77	0256	0:40	350	42.00N	64.97W	-46.	.011 .	089		8/ 9/					52.17N	24.76W	-54.	.012	•122	.10
8	/ 9/77	1060	0:45	350	42.22N	63.97W	-47.	.000	090		8/ 9/	77 (	0608			52.40N	23.59W	-56.	.004	• 085	
8	/ 9/77	0306	0:50	350	42.43N	62.97W	-47.	.000	094		8/ 9/	77 (	0613			52.61N	22.39W	-56.	.000	•06B	
8	/ 9/77	0311	0:55	350	42.64N	61.95W	-47.	.000	093		8/ 9/	77 (	0618			52.81N	21.21W	-56.	.000	•077	
8	/ 9/77	0316	1:00	350	42.83N	60.92W	-47.	.000	084		8/ 9/	77 (	0623	4:07	350	52.99N	20.04W	-56.	.000	•099	
8	/ 9/77	0326	1:10	350	43.27N	58.88W	-48.	.008 .	084		8/ 9/	77 (	0633	4:17	350	53.03N	17.60W	-56.	.000	•078	
8	/ 9/77	0336	1:20	350	43.75N	56.80W	-48.	.027	083		8/ 9/	77 (	0643	4:27	370	53.01N	15.38W	-61.	.000	•102	.00
8	/ 9/77	0346	1:30	350	44.19N	54.68W	-48.	.012	083		8/ 9/	77 (	0648	4:32	370	53.11N	13.99W	-61.	.005	• 096	
8	/ 9/77	0356	1:40	350	44.59N	52.50W	-48.	.017	070		8/ 9/	77 (	0658	4:42	370	53.28N	11.59W	-61.	.000	.104	.00
8	/ 9/77	0401	1:45	350	44.78N	51.38W	-48.	.014 .0	069		8/ 9/	77 (	0708	4:52	370	53.41N	9.25W	-61.	.006	•159	.04
8	/ 9/77	0406	1:50	350	44.96N	50.23W	-48.	.004 .	058		8/ 9/	77 (	0713	4:57	370	53.45N	8.06W	-62.	.002	• 097	
8	/ 9/77	0411	1:55	350	45.29N	49.19W	-49.	.004 .	132	•03	8/ 9/	77 (	0718	5:02	370	53.42N	6.88W	-62.	.001	•133	.01
8	/ 9/77	0416	2:00	350	45.64N	48.18W	-51.	.022	209	•11	8/ 9/	77 (	0723	5:07	370	53.48N	5.72W	-59.	.005	•137	.04
8	/ 9/77	0426	2:10	350	46.28N	46.19W	-52.	.006	194	•03	8/ 9/	77 (	0728	5:14	370	53.53N	4.56W	-57.	.004	<b>•338</b>	.01
8	/ 9/77	0436	2:20	350	46.88N	44.21W	-53•	.004 .	191	•02	8/ 9/	77 (	0738	5:22	370	53.63N	2.20W	-52.	.006	•414	.01
8	/ 9/77	0446	2:30	350	47.44N	42.18W	-54.	.002	154	•01	8/ 9/	77 (	0748	5:32	370	53.71N	•09E	-53.	.001	.213	.00
8	/ 9/77	0456	2:40	350	47.98N	40.08W	-52•	.004 .	171	•02	8/ 9/	77 (	8080	5:52	370	55.01N	4.16E	-48.	.007	•123	.06
8	/ 9/77	0501	2:45	350	48.34N	39.03W	-51•	.033 .	173	•19	8/ 9/	77 (	0813	5:57	370	55.28N	5.26E	-47.	.013	•403	E0.
8	/ 9/77	0506	2:50	350	48.71N	37.97W	-52•	.012 .	118	•10	8/ 9/	77 (	0818			55.42N	6.43E	-47.	.019	•423	.04
8	/ 9/77	0511	2:55	350	49.06N	36.89W	-53.	.006 .0	063		8/ 9/	77 (	0823	6:07	370	55.54N	7.62E	-49.	.014	•412	.03
<u> </u>											8/ 9/	77 (	0828			55.65N	8.81E	-55.	.020	• 364	.05

A-391



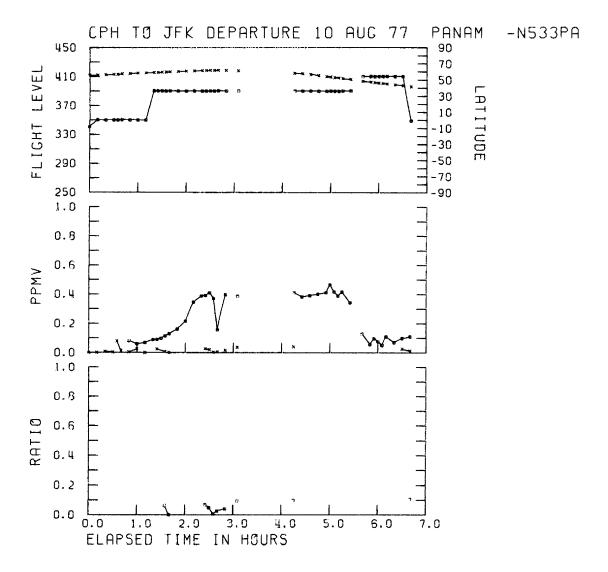
MAXIMUM VALUES: AMBIENT OZONE= .495 CABIN OZONE= .044 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .34 TOTAL OBS IN CABIN: 36 DATA SOURCE: GASP TAPE VL010, FILE 4

МО	/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZUNE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (#		RATIO
_	/ 9/77				55.58N			.010	•106	•09	8/ 9/77				49.38N	35.91W			•477	
	1/ 9/77				55.33N	5.66E	-50.		•318		8/ 9/77	-			49.1UN	36.79W			•491	
8	/ 9/77	1143	0:30	350	54.82N	3.48E	<b>-</b> 52∙	.000	• 331	-00	8/ 9/77				18.52N	38.52W		.015	• 495	٤0.
	1 9/77		0:40	350	54.18N	1.42E			•172		8/ 9/77				47.95N	40.20W			•492	
-	1/ 9/77		0:45	350	53.85N	-	-57•		•185	• 0 0	8/ 9/77	-			47.50N	41.97W			• 364	
	1/ 9/77				53.63N		-54.		•307	•03	8/ 9/77				47.05N	43.62W			• 335	
	1/ 9/77		0:55	350	53.53N	1.75W	-53•		•409		8/ 9/77		4:45	411	46.83N	44.38W	-53.		•239	
	3/ 9/77		1:00	350	53.42N	2.87W	-56•	.037	•188	•20	8/ 9/77	1603			46.59N	45.18W	-52.		•220	
	3/ 9/77		1:10	367	53.46N	5.02W	-61.		•158		8/ 9/77				46.36N	45.94W	-54.		•139	
	3/ 9/77		1:20	390	53.45N	7.17W	-58•		• 353		8/ 9/77				46.13N	46.68W	-55.		•113	
	3/ 9/77				53.38N	9.26W	-58•	.031	• 353	• 0 9	8/ 9/77	1623	2:10	390	45.66N	48.09W	-55.		•090	
8	3/ 9/77	1253	1:40	390	53.28N	11.35W	-60•	.000	•283	• 0 0	8/ 9/77	1633	5:20	390	45.18N	49.50W	<del>-</del> 57.		•088	
8	3/ 9/77	1258	1:45	390	53.21N	12.38W	-59•		•300		8/ 9/77	1643	5:30	390	44.85N	50.98W	-57.		•093	
8	3/ 9/77	1303	1:50	390	53.13N	13.40W	-58.	.030	•268	•11	8/ 9/77	1653	5:40	390	44.59N	52.51W	-57.		•092	
8	3/ 9/77	1308	1:55	390	53.05N	14.42W	-58•	.023	•184	•13	8/ 9/77	1658	5:45	390	44.45N	53.28W	-57.		•096	
ε	3/ 9/77	1313	2:00	390	53.01N	15.41W	-57.	.029	•181	•16	8/ 9/77	1703			44.31N	54.06W	-57.		•096	
8	3/ 9/77	1323	2:10	390	53.02N	17.41W	-58•	.029	.218	•13	8/ 9/77		5:55	390	44.16N	54.84W	-57.		•098	
8	3/ 9/77	1333	2:20	390	53.01N	19.40W	-58•		•254		8/ 9/77	1713			44.00N	55.61W	-57.		•099	
8	3/ 9/77	1343	2:30	390	52.79N	21.33W	-57•	.015	•262	•06	8/ 9/77	1723			43.68N	57.13W	-56.		•106	
ε	3/ 9/77	1353	2:40	390	52.47N	23.19W	-60.	.000	•185	• 0 0	8/ 9/77	1733	6:20	390	43.33N	58.65W	-56.		•112	
ε	3/ 9/77	1358	2:45	390	52.31N	24.04W	-61.	.044	•130	• 34	8/ 9/77	1743	6:30	390	42.97N	60.15W	-56.		·106	
. 8	3/ 9/77	1403	2:50	390	52.15N	24.88W	-62.		• 054		8/ 9/77	175 <sub>6</sub>	6:45	390	42.54N	62.44W	-56.		•108	
} ε	3/ 9/77	1408	2:55	390	51.98N	25.71W	-62•	.016	•070		8/ 9/77	1803	6:50	390	42.39N	63.19W	-56.		·108	
<b>8</b>	1 9/77	1413	3:00	390	51.80N	26.55W	-60•	.006	• 094		8/ 9/77	1808	6:55	390	42.23N	63.93W	-56.		•104	
8	1 9/77	1423	3:10	390	51.43N	28.21W	-59.		•111		8/ 9/77	1813	7:00	390	42.07N	64.67W	-56.		•106	
8	9/77	1433	3:20	390	51.03N	29.86W	-57.		•152		8/ 9/77	1823	7:10	390	41.92N	66.21W	-56.	.001	·100	
8	1/ 9/77	1443	3:30	390	50.62N	31.52W	-55.	.005	•249	-02	8/ 9/77	1833			41.85N	6/.77W	-56.	.001	•115	.01
8	1 9/77	1453	3:40	405	50.16N	33.24W	-50.		•471		8/ 9/77	1843	7:30	390	41.77N	69.35W	-56.	.000	•112	.00
8	9/77	1503	3:50	410	49.64N	35.03W	<del>-</del> 50•	.000	•466	• 0 0	8/ 9/77	1853	7:40	326	41.65N	70.95W	-40.		•079	
											8/ 9/77	1858	7:45	231	41.60N	71.79W	-18.		•079	



MAXIMUM VALUES: AMBIENT OZONE= .502 CABIN OZONE= .059 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .36 TOTAL OBS IN CABIN: 34 DATA SOURCE: GASP TAPE VL010, FILE 4

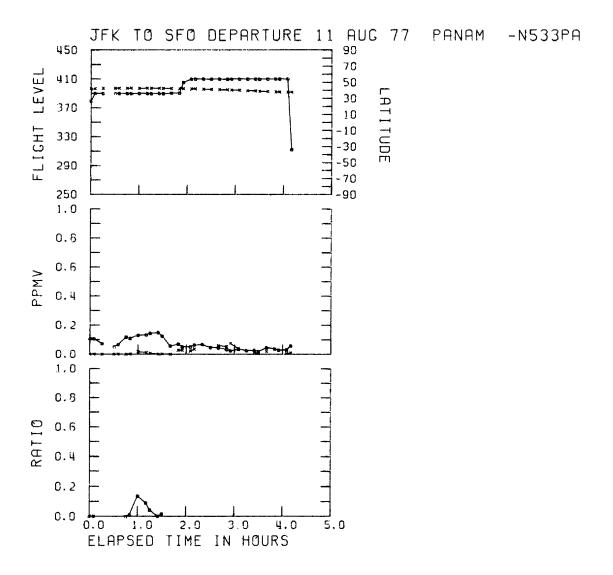
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP		(PPMV) AMB•	RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO
	8/10/77	0209	0:10	347	40.25N	70.71W	-45.	.004	-079		8/10/77	0519	3:20	411	48.00N	33.81W	-50.	.012	• 452	.03
	8/10/77	0219	0:20	370	40.05N	68.81W	-52.	.001	•087		8/10/77	0529	3:30	411	48.56N	31.73W	-48.		•391	
	8/10/77	0229	0:30	390	39.83N	66.97W	-56•	.004	•100		8/10/77	0539	3:40	410	49.14N	29.68W	-Ś0.		٠455	
	8/10/77	0239	0:40	390	39.99N	65.10W	~56•	.000	•107	• 0 0	8/10/77	0544	3:45	410	49.56N	28.78W	-49.	.000	•488	.00
	8/10/77	0244	0:45	390	40.17N	64.19W	-56.	.020	•108	•19	8/10/77	0549	3:50	411	49.98N	27.85W	-48.	.055	•502	.11
	8/10/77	0249	0:50	394	40.37N	63.28W	-57.	.007	•110	•06	8/10/77	0554	3:55	411	50.40N	26.90W	-49.	.014	•485	.03
	8/10/77	0254	0:55	400	40.57N	62.31W	-59.	.018	•118	•15	8/10/77	0614	4:15	410	51.99N	22.89W	-54.	.000	•301	.00
	8/10/77	0259	1:00	403	40.85N	61.41W	-60.		•110		8/10/77	0624	4:25	410	52.73N	20.81W	-56.	.000	•326	.00
	8/10/77	0309	1:10	404	41.38N	59.58W	-60•	.010	•104	-10	8/10/77	0634	4:35	427	53.30N	18.61W	-55.		•255	
	8/10/77	0319	1:20	404	41.76N	57.69W	-61.	.033	• 093		8/10/77	0639	4:40	430	53.54N	17.47W	-56.		•221	
	8/10/77	0329	1:30	410	42.14N	55.69W	-62.	.023	•113	•20	8/10/77	0644	4:45	430	53.76N	16.33W	-56.		.224	
	8/10/77	0339	1:40	411	42.47N	53.71W	-61.		•120		8/10/77	0649	4150	430	53.97N	15.17W	-57.	.000	•225	.00
	8/10/77	0344	1:45	410	42.63N	52.67W	-61•	.043	•119	•36	8/10/77	0654	4:55	430	54.21N	14.04W	-57.	.000	•223	.00
	8/10/77	0349	1:50	411	42.78N	51.66W	-61.	.000	•129	•00	8/10/77	0704	5:05	430	54.67N	11.78W	-58.	.006	•282	.02
	8/10/77	0354	1:55	411	42.69N	50.64W	-61.	.031	•121	• 26	8/10/77	0714	5:15	430	55.07N	9.44W	-55.		•380	
	8/10/77	0359	2:00	411	42.76N	49.66W	<b>-61</b> •	.025	•113	•22	8/10/77	0724	5:25	424	55.38N	7.02W	-55.	.029	•407	.07
	8/10/77	0409	2:10	411	43.48N	47.79W	-60•	.005	•113	• 0 4	8/10/77	0734	5:35	411	55.68N	4.54W	-55.	.037	•350	•11
	8/10/77	0419	2:20	410	44.17N	45.88W	-61.	.007	• 065		8/10/77	0739			55.80N	3.37W	-55.	.027	•395	.07
	8/10/77	0439	2:40	410	45.47N	41.84W	-60•		•117		8/10/77	0744	5:45	411	55.91N	2.15W	-52.	.034	•377	•09
	8/10/77	0444	2:45	410	45.77N	40.81W	-59•		•115		8/10/77	0749	5:50	411	55.92N	•91W	-52.	.004	.308	.01
	8/10/77		2:50	410	46.07N	39.79W	-59•		•116		8/10/77			_	55.91N	.31E	-51.	.047	•314	.15
	8/10/77	0454	2:55	410	46.42N	38.82W	-58•		•113		8/10/77				55.76N	2.76E	-49.	.032	•415	.08
3	8/10/77	0509	3:10	410	47.39N	35.86W	-55•	.027	•197	• 14	8/10/77	0814	6:15	411	55.67N	5.20E	-48.		•407	
Ď											8/10/77	0824	6:25	411	55.52N	7.64E	-47.	.059	•448	.13



MAXIMUM VALUES: AMBIENT OZONE= .465 CABIN OZONE= .080 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .11 TOTAL OBS IN CABIN: 34

DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CABIN OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RAT10
8/10/77	0000M	0:00	341	55.66N	9.33E	-51.	.000			8/10/77	0240M	2:40	391	61.99N	29.92W	-44.	.004	.157	.03
8/10/77	0010M	0:10	350	55.83N	7.00E	-46.	.000			8/10/77	0250M	2:50	390	61.80N	32.82W	-45.	.016	•397	.04
8/10/77	0020M	0:20	350	56.25N	4.70E	-49.	.008			8/10/77	0306M	3:06	391	61.33N	37.43W	-47.	.037	•387	.10
8/10/77	0030M	0:30	350	56.74N	2.47E	-55•	.003			8/10/77	0416M	4:16	390	58.28N	55.55W	-52·	.041	•412	.10
8/10/77	0035M	0:35	350	57.00N	1.37E	-56.	.080			8/10/77	0426M	4:26	390	57.52N	57.67W	-50.		•382	
8/10/77	0044M	0:44	350	57.48N	.79W	-55.	.014			8/10/77	0436M	4:36	390	56.58N	59.39W	-48.		•391	
8/10/77	0053M	0:53	350	57.90N	2.90W	-55.	.005	•081		8/10/77	0446M	4:46	390	55.34N	60.35W	-47.		•401	
8/10/77	0102M	1:02	350	58.28N	5.04W			.060		8/10/77	0456M	4:56	390	54.20N	61.63W	-46.		•412	
8/10/77	0111M	1:11	350	58.63N	7.27W	-54.	.000	•068		8/10/77	0501M	5:01	390	53.61N	62.25W	-46.		•465	
8/10/77				58.94N	9.54W			• 089		8/10/77	_		<b>390</b>	53.03N	62.85W			•417	
8/10/77		_	390	59.16N	10.65W			•090		8/10/77				52.44N	63.43W	-46.		.389	
8/10/77	0130M	-		59.43N	11.78W			•098		8/10/77			,	51.85N	64.00W			•416	
8/10/77		-		59.69N	12.91W			•114	•06	8/10/77		-		50.68N	65.08W			.342	
8/10/77				59.93N	14.05W			•130		8/10/77				48.48N	66.95W			•130	
8/10/77				60.40N	16.46W			•162		8/10/77				47.41N	67.79W			.057	
8/10/77		_	_	60.84N	18.97W			.215		8/10/77				46.85N	68.21W			•097	
8/10/77				61.21N	21.54W			• 346		8/10/77				46.30N	68.62W			.077	
8/10/77				61.52N	24.26W			•388		8/10/77				45.74N	69.02W			052	
8/10/77				61.66N	25.65W			• 392		8/10/77				45.17N	69.43W			.110	
8/10/77				61.79N	27.04W		.020	•410		8/10/77				44.04N	70.23W			.070	
8/10/77				61.90N	28.48W	_		•372		8/10/77				42.92N	71.05W		.025	•099	
2. 20. 11	J = J J		-,,	5227011		70•		-5,2	- • •	8/10/77				41.82N	71.82W		.012	•111	.11
<b>&gt;</b>										5. 107.1	001017	=::•	,					- 4 1 7	• • •



8/11/77 0150M 1:50 390 42.15N

8/11/77 0158M 1:58 405 42.02N

96.13W -58.

97.50W -60.

.029

.028 .051

.070

DEPARTURE: 11 AUG 77

MAXIMUM VALUES: AMBIENT OZONE= .149 CABIN OZONE= .075 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .14 TOTAL OBS IN CABIN: 26 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE (PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE (PPMV) RATIO HR:MN (C) CABIN AMB. HR: MN (C) CABIN AMB. 8/11/77 0000M 0:00 379 41.47N 75.91W -53. .000 .107 .00 8/11/77 0206M 2:06 410 41.87N 98.92W -60. .025 .051 8/11/77 0009M 0:09 390 41.93N 77.46W -56. .000 .105 .00 8/11/77 0214M 2:14 410 41.69N 100.38W -58. .036 .064 8/11/77 0018M 0:18 390 42.39N 78.96W -55. .000 .072 8/11/77 0222M 2:22 410 41.49N 101.86W -57. .068 8/11/77 0030M 0:30 390 42.51N 81.27W -55. .000 .050 8/11/77 0234M 2:34 410 41.16N 104.06W -57. .047 8/11/77 0038M 0:38 390 42.56N 82.79W -55. .000 • 065 8/11/77 0242M 2:42 410 40.91N 105.51W -57. .059 .044 8/11/77 0046M 0:46 390 42.60N 84.30W -55. .000 •118 •00 8/11/77 0250M 2:50 410 40.65N 106.96W -57. .054 .033 8/11/77 0054M 0:54 390 42.61N 85.85W -54. .001 2:58 410 40.36N 108.41W -57. .075 .025 •109 •01 8/11/77 0258M 8/11/77 0102M 1:02 390 42.60N 3:07 410 40.05N 109.88W -56. .039 .035 87.38W -54. .018 •131 •14 8/11/77 0307M 8/11/77 0110M 1:10 390 42.57N 88.91W -55. .012 .133 .09 8/11/77 0316M 3:16 410 39.71N 111.37W -57. .026 8/11/77 0118M 1:18 390 42.52N 90.47W -55. .006 .144 .04 3:25 410 39.36N 112.83W -59. .015 8/11/77 0325M -027 8/11/77 0126M 1:26 390 42.45N 91.95W -54. .000 .149 .00 8/11/77 0334M 3:34 410 38.98N 114.29W -58. .004 .019 8/11/77 0134M 1:34 390 42.37N 93.37W -55. .002 .125 .02 8/11/77 0343M 3:43 410 38.59N 115.76W -57. .021 .045 8/11/77 0142M 1:42 391 42.27N 94.76W -56. .000 8/11/77 0352M 3:52 410 38.19N 117.24W -55. • 057

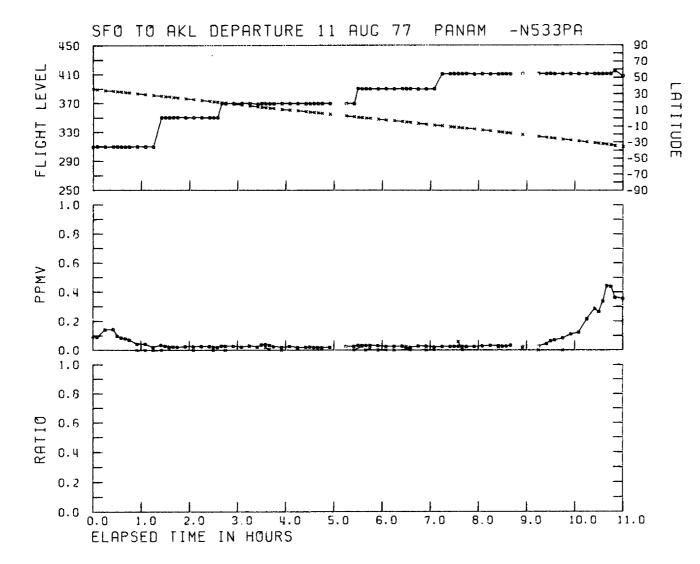
8/11/77 0357M 3:57 410 38.08N 118.03W -56.

8/11/77 0406M 4:06 410 37.80N 119.57W -56. .006 .031 8/11/77 0411M 4:11 312 37.64N 120.33W -39. .010 .058

AIRCRAFT: PANAM -N533PA

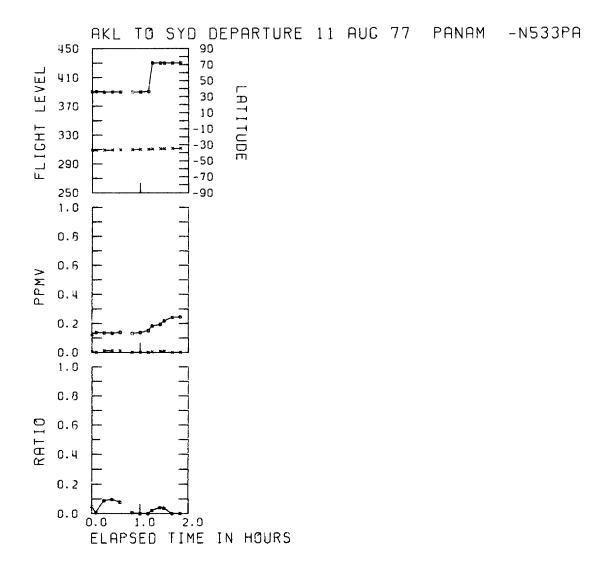
.037

.029



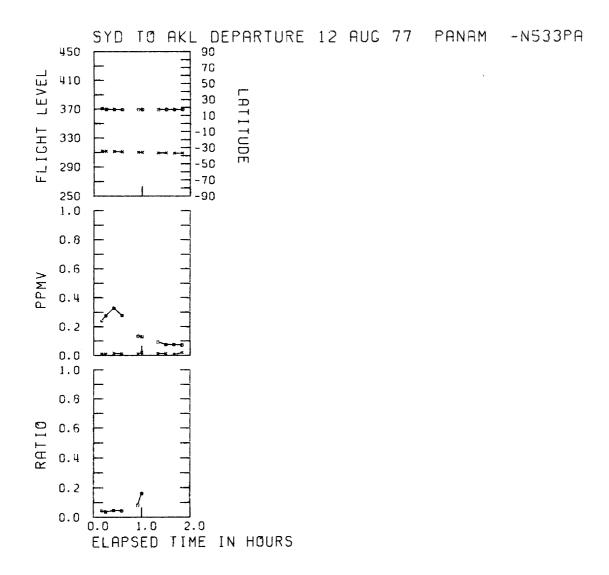
MAXIMUM VALUES: AMBIENT OZONE= .443 CABIN OZONE= .059 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 0.00 TOTAL OBS IN CABIN: 40 DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE

														_	_					
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CABIN OZONE (F		RATIO	MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE (	AMB.	RATIO
	8/11/77	оооом	0:00	310	36.14N	124.43W	-40.		•093		8/11/77	0527M	5:27	370	1.42N	155.43W	-51-	.000	•025	
	8/11/77				35.22N	125.45W			•090		8/11/77		5:32		.89N	155.93W		•000	•034	
	8/11/77	0018M			34.28N	126.47W			•142		8/11/77		5:37	390	.37N	156.42W		.026	.031	
	8/11/77				33.33N	127.46W	-39•		• 145		8/11/77		5:42		.145	156.91W	-55.	.000	•032	
	8/11/77				32.85N	127.96W			• 099		8/11/77		5:47		•66S	157.39W		.008	•033	
	8/11/77				32.36N	128.45W			•086		8/11/77				1.685	158.36W		.000	•030	
	8/11/77			_	31.87N	128.94W			•081		8/11/77	-	6:07		2.715	159.34W		.000	•026	
	8/11/77 8/11/77				31.38N	129.42W		0.00	•072		8/11/77		6:17		3.45S	160.55W		.000	• 027	
	8/11/77		_		30.38N 29.32N	130.38W 131.35W		.000	• 044 • 044		8/11/77 8/11/77		100		4.45S 4.99S	161.56W 162.00W		0.24	•028	
	8/11/77				28.25N	132.30W		.000	•020		8/11/77	<del>-</del> -				162.45W		.024	•015 •020	
	8/11/77				27.19N	133.23W		.000	•036		8/11/77		6:41		6.66S	163.36W		•000	•028	
	8/11/77				26.66N	133.68W		•••	•029		8/11/77					164.27W		.000	•027	
	8/11/77				26.14N	134.12W		.015	•023		8/11/77					165.18W		.001	•021	
	8/11/77	0141M	1:41	351	25.61N	134.56W	-45.	.024	•024		8/11/77	071BM	7:18	411	9.685	166.34W	-63.		.025	
	8/11/77		-		25.08N	135.00W	-45.		•022		8/11/77				10.725	167.29W	-62.		•025	
	8/11/77				24.00N	135.88W			•026		8/11/77	-			11.225	167.76W			•026	
	8/11/77				22.90N	136.76W		.000	•025		8/11/77				11.725	168.22W		.059	•026	
	8/11/77				21.80N	137.62W			•027		8/11/77				12.225	168.69W		.001	•026	
	8/11/77 8/11/77				20.65N 20.09N	138.51W		000	•027		8/11/77				12.715	169.16W		.020	•025	
	8/11/77	-, -,			20.09N 19.52N	138.93W		.000	•022		8/ <sub>11/77</sub> 8/ <sub>11/77</sub>				13.70S 14.74S	170.10W			•025	
Þ	8/11/77				18.95N	139.85W			•020 •030		8/11/77				15.905	170.97W			•030 •033	
6					18.38N	140.30W		.000	•029		8/11/77				17.055	172.44W		.021	•030	
_	8/11/77				17.24N	141.20W		••••	•028		8/11/77				17.605	172.80W		• 021	•027	
	8/11/77				16.08N	142.09W			•022		8/11/77	-			18.175	173.18W			•027	
	8/11/77	0316M	3:16	370	14.92N	142.98W	-51.		•030		8/11/77	0843M	8:43	411	18.735	173.55W	-62.		.034	
	8/11/77	0326M	3:26	369	13.79N	143.88W	-51.		•022		8/11/77	085BM	8 58	411	20.385	174.66W	-63.	.016	.026	
	8/11/77				13.26N	144.37W			•037		8/11/77				22.675	176.02W		.000	•028	
	8/11/77				12.73N	144.86W		.018	• 040		8/11/77				23.845	176.67W			• 045	
	8/11/77				12.20N	145.36W		.005	•034		8/11/77				24.425	177.00W			•064	
	8/11/77				11.67N	145.85W		0.00	•025		8/11/77				25.005	177.32W		000	• 071	
	8/11/77 8/11/77				10.64N	146.86W		.000	•020		8/11/77			_	26.185	178.01W		.000	• 084	
	8/11/77		4:06 4:16		9.60N 8.95N	147.84W 149.08W			•026 •017		8/11/77 8/11/77				27.375	178.71W 179.40W			•111 •123	
	8/11/77		4:26		7.75N	149.79W			•020		8/11/77					179.86E			•123	
	8/11/77		4:31		7.12N	150.08W			•022		8/11/77					179.13E			•215	
	8/11/77		4:36		6.55N	150.46W			.018		8/11/77			_	-	178.75E			•265	
	8/11/77		4:41		6.05N	150.95W			•017		8/11/77					178.37E			•336	
	8/11/77		4:46		5.53N	151.46W	-	.007	•017		8/11/77					177.99E			•443	
	8/11/77		4:56		4.51N	152.45W			-019		8/11/77					177.59E			•439	
	8/11/77				2.45N	154.44W			•026		8/11/77					176.80E	-53.		•363	
						-			-		8/11/77	1104M	11:04	407	35.465	176.07E	-53.		•356	
													-							



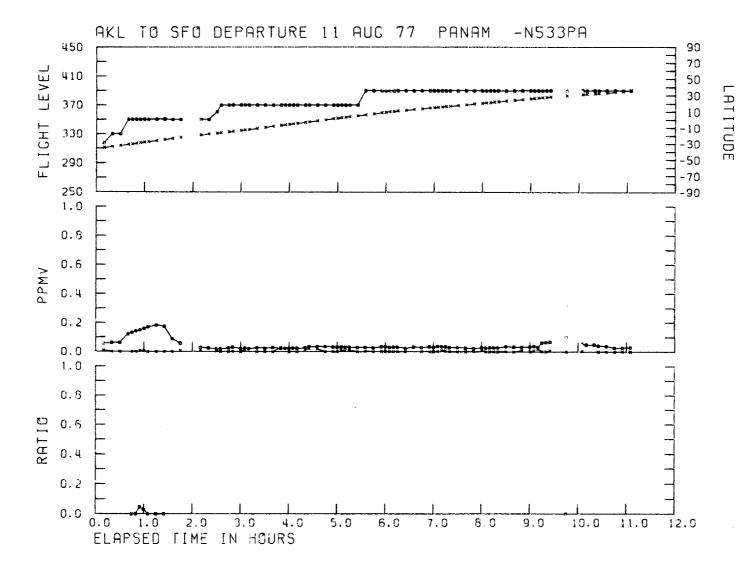
MAXIMUM VALUES: AMBIENT OZONE= .246 CABIN OZONE= .013 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .10 TOTAL OBS IN CABIN: 13
DATA SOURCE: GASP TAPE VL010, FILE 4 AN "M" AFTER THE GMT BELOW DENOTES GMT MISSING ON THE ORIGINAL DATA TAPE

MO/DA/YR GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		_	MO/DA/YR G		ETIM FL HR:MN	LAT	LONG		OZONE (		RAT10
8/11/77 0000M 8/11/77 0009M 8/11/77 0018M 8/11/77 0027M 8/11/77 0036M 8/11/77 0054M	0:09 0:18 0:27 0:36	390 390 390 390	36.75S 36.60S 36.48S 36.35S	170.94E 169.45E 167.96E 166.49E	-63. -63. -62.	.001 .012 .013	•137 •135 •133 •140	.01 .09 .10	8/11/77 01 8/11/77 01 8/11/77 01 8/11/77 01 8/11/77 01 8/11/77 01 8/11/77 01	10M 18M .26M .34M	1:10 391 1:18 430 1:26 430 1:34 430 1:42 430	35.61S 35.39S 35.16S 34.91S 34.65S	160.89E 159.60E 158.28E 156.96E 155.67E	-58. -59. -58. -57. -57.	.000 .004 .008 .008	•150 •184 •194 •218 •242	.00 .02 .04 .04



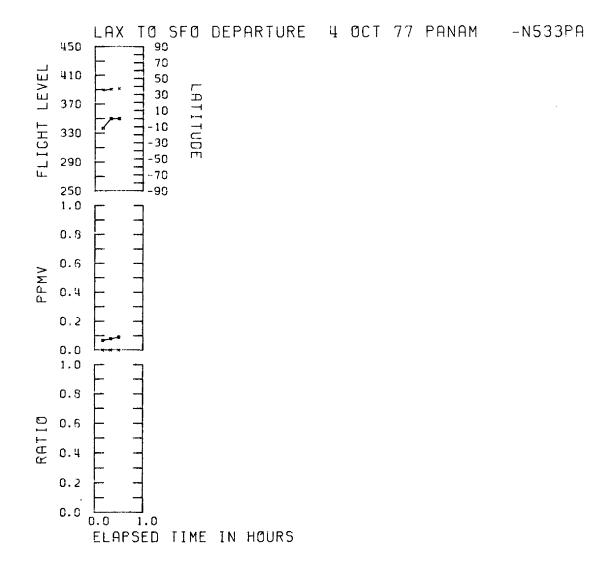
MAXIMUM VALUES: AMBIENT OZONE= .328 CABIN OZONE= .021 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .16 TOTAL OBS IN CABIN: 10 DATA SOURCE: GASP TAPE VL010, FILE 4

MO/DA/YR GMT	ETIM FL LAT	LONG TEMP OZONE(PPMV (C) CABIN AMB	9 .	GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
8/12/77 0606 8/12/77 0616	0:17 369 34.435 0:27 369 34.815 0:37 369 35.165	153.35E -49011 .24 154.65E -51010 .27 156.49E -53015 .32 158.32E -54012 .27 161.96E -57011 .13	75 • 04 8/12/77 18 • 05 8/12/77 17 • 04 8/12/77	0701 1:22 369 36.40S 0711 1:32 369 36.59S 0721 1:42 370 36.75S	162.88E -58021 .130 .16 166.62E -60013 .093 168.46E -61013 .075 170.27E -62009 .075 172.08E -63020 .072



MAXIMUM VALUES: AMBIENT OZONE= .183 CABIN OZONE= .029 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .05 TOTAL OBS IN CABIN: 74
DATA SOURCE: GASP TAPE VL010, FILE 4

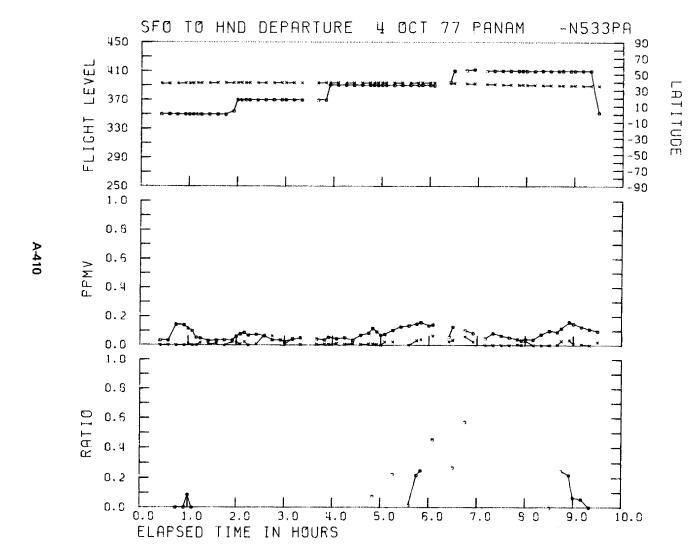
	_	_				_														
١	10/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMB.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMB.	RAT10
	8/11/77	0910	0:10	318	35.035	176.27E	-50.	.009	• 057		8/11/77	1448	5:48	390	7.29N	162.63W	-56.	.000	•027	
	8/11/77				33.785	177.16E		.000	•061		8/11/77		5:58	-	8.53N	162.17W		.002	•035	
	8/11/77				32.485	178.05E			•062		8/11/77		6:03		9.16N	161.94W		.000	•035	
	8/11/77				31.145	178.94E		••••	•121		8/11/77		6:08	-	9.80N	161.70W		.001	•030	
	8/11/77				30.485	179.37E		.000	•132	•00	8/11/77				10.28N	161.26W		.000	•032	
	8/11/77				29.805	179.81E			•143	•00	8/11/77		A-1 - A-1		10.76N	160.80w		.001	•032	
	8/11/77				29.115	179.76W		.007	•149	• 05	8/11/77				11.72N	159.87W		.000	.024	
	8/11/77				28.415	179.32W		.005	•160	•03	8/11/77				12.68N	158.92W		••••	•033	
	8/11/77				27.725	178.90W		.000	•171	•00	8/11/77				13.63N	157.97W		.002	•030	
	8/11/77				26.365	178.08W			•183	•00	8/11/77				14.58N	157.02W		.000	•035	
	8/11/77				25.045	177.32W			•174	•00	8/11/77				15.06N	156.51W		.000	•031	
	8/11/77				23.735	176.57W		.000	•088	• • •	8/11/77				15.54N	155.99W		.002	.038	
	8/11/77				22.455	175.87W		.006	• 057		8/11/77				15.99N	155.50w		.008	•035	
	8/11/77				19.295	173.87W			•029		8/11/77				16.44N	154.99W		.006	•035	
	8/11/77				18.185	173.12W			• 025		8/11/77				16.90N	154.48W		.001	.029	
	8/11/77				17.06S	172.38W		.005	•020		8/11/77		7:33	390	17.82N	153.44W		.000	•030	
	8/11/77				16.505	172.01W		.000	•019		8/11/77		7:43	390	18.75N	152.38W		.000	.025	
	8/11/77				15.385	171.29W		.000	•026		8/11/77				19.67N	151.29W		.002	.023	
	8/11/77				14.815	170.92W		.001	•031		8/11/77				20.61N	150.18W		.010	.028	
	8/11/77	1201	3:01	370	13.645	170.37W	-52.	.000	.022		8/11/77	1708	8:08	390	21.07N	149.60W	-55.	.000	.026	
	8/11/77	1206			13.035	170.13W		.015	•025		8/11/77	1713	8:13	390	21.53N	149.02W	-55.	.000	.029	
	8/11/77	1211	3:11	370	12.415	169.90W	-51.		.021		8/11/77		8:18	390	21.99N	148.43W	-55.	.000	.028	
Þ	8/11/77	1221	3:21	370	11.165	169.42W	-50 •	.000	•027		8/11/77		8:23	390	22.44N	147.85W	-56·	.000	.028	
A-407	8/11/77		3:31			168.94W		.000	•024		8/11/77		8:33	390	23.35N	146.66W	-56.	.000	.036	
7	8/11/77	1243	3:43	370	8.395	168.38W	-52.	.000	.029		8/11/77	1743	8:43	390	24.25N	145.45W	-55.	.000	.033	
	8/11/77	1253	3:53	370	7.155	167.91W	-51.	.,029	.022		8/11/77	1753	ĕ <b>:</b> 53	390	25.15N	144.22W	-55.	.010	.033	
	8/11/77	1258	3:58	370	6.535	167.68W			-024		8/11/77	1803	9:03	390	26.06N	142.93W	-55.	.000	•035	
	8/11/77	1303	4:03	370	5.905	167.45W	-5î•	.000	•024		8/11/77	1808	9:08	390	26.52N	142.28W	-54.	.008	.038	
	8/11/77	1308	4:08	370	5.285	167.22W	-51.		•025		8/11/77	1813	9:13	390	26.97N	141.62W	-54.	.019	•031	
	8/11/77	1313	4:13			166.99W	-51.	.000	• 025		8/11/77	1818	9:18	390	27.42N	140.95W	-54.	.002	•062	
	8/11/77	1323	4:23	370	3.405	166.53W	-51.	.016	•028		8/11/77	1823	9:23	390	27.86N	140.28W	-55.	.000	•064	
	8/11/77	1328	4:28	370	2.77S	166.30W	-51.	.022	•035		8/11/77		9:28	390	28.30N	139.61W	-54.	.007	•067	
	8/11/77	1338	4:38	370	1.495	165.84W	-50 -	.020	•036		8/11/77	1848	9:48	390	29.87N	136.68W	-51.	.000	•102	.00
	8/11/77	1348	4:48	370	.215	165.38W	-51.	.000	•036		8/11/77	1908	10:Ö8	390	31.36N	133.55W	-51.	.004	• 055	
	8/11/77	1358	4:58	370	1.07N	164.91W	-51.	.001	•033		8/11/77	1913	10:13	390	31.72N	132.76W	-51.		•049	
	8/11/77	1403	5:03	370	1.71N	164.67W	-50.	.000	•032		8/11/77	1923	10:23	390	32.41N	131.17W	-50.		•049	
	8/11/77	1408	5:08		2.35N	164.44W		.011	•033		8/11/77	_	10:28	390	32.74N	130.39W	-50.	.000	.041	
	8/11/77		5:13		2.98N	164.21W		.008	•032		8/11/77				33.60N	128.93W		.000	.038	
	8/11/77		5:18		3.58N	163.99W		.008	•031		8/11/77				34.49N	127.49W		.000	.026	
	8/11/77		5:28		4.81N	163.54w		.000	•030		8/11/77	-	<del>-</del>		35.37N	126.01W		.000	•028	
	8/11/77		5:38			163.09W		.004	•030		8/11/77				36.21N	124.53W		.000	.030	
	/ /		3.50		O # V 7/4		J.() •	•••	- 5 5 0		0.11/.1	_ 0 0 .7						• • • •		



MAXIMUM VALUES: AMBIENT OZONE= .090 CABIN OZONE=0.000 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = \*\*\*\*\*\* TOTAL OBS IN CABIN: 3
DATA SOURCE: GASP TAPE VL014, FILE 1

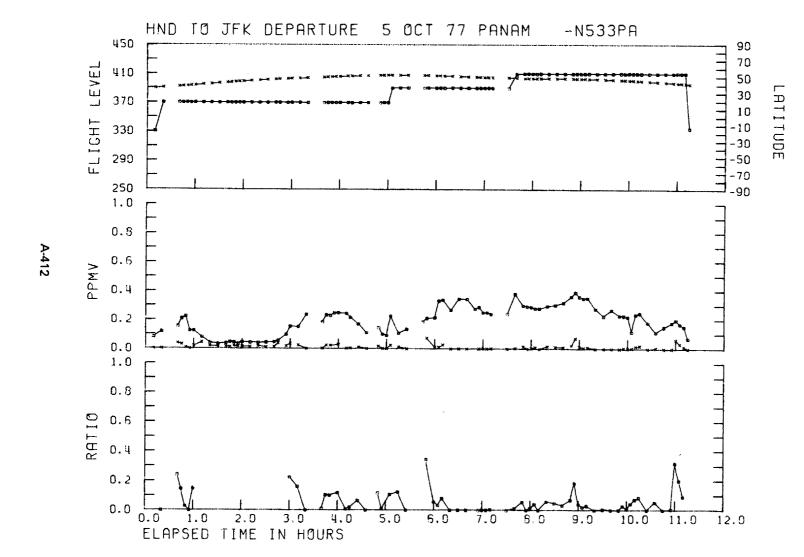
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (Q) CABIN AMB.

13/ 4/77 2040 0:10 336 35.46N 120.26W -50. .000 .067 10/ 4/77 2050 0:20 350 36.47N 121.33W -54. .000 .079 10/ 4/77 2100 0:30 350 37.23N 122.68W -53. .000 .090



MAX (- NUM VALUES: AMBIENT OZONE= .160 CABIN OZONE= .068 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .57 TOTAL OBS IN CABIN: 60 DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPN CABIN AM		RATIO	MO/DA/YR	GM1	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77	2150 2200 2210 2215 2220 2225 2230 2240 2250	0:35 0:45 0:55 1:00 1:05 1:10 1:15 1:25	350 350 350 350 350 350 350 350	37.98N 38.11N 38.32N 38.50N 38.58N 38.66N 38.74N 38.80N 38.92N 39.07N	129.21W 130.62W 132.38W 133.95W 134.75W 135.55W 136.35W 137.15W 138.76W 140.42W	-55. -53. -53. -53. -53. -53. -53.	.001 .000 .1 .000 .1 .000 .1 .000 .1 .001 .0 .1 .001 .0 .1 .009 .0 .0 .1 .009 .0 .0 .1 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	34 33 43 39 17 00 53 48 131 34	•00 •00 •09	10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77	0210 0215 0220 0230 0240 0250 0300 0305 0315	4:55 5:00 5:05 5:15 5:25 5:35 5:45 5:50 6:00	390 390 390 390 390 390 390 390	39.10N 39.11N 39.10N 39.10N 39.07N 39.01N 39.05N 39.09N 39.10N 39.10N	173.86W 174.69W 175.53W 176.35W 178.66W 179.68W 178.66E 176.97E 176.13E 174.456F	-57. -55. -58. -57. -55. -57. -60.	.009 .004 .000 .022 .023 .002 .032 .039	•117 •094 •069 •075 •102 •127 •135 •147 •157	.08 .23 .01 .22 .25
10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77 10/ 4/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77	2310 2315 2320 2325 2330 2340 2350 0000 0010 0016 0025 0035	1:55 2:00 2:05 2:10 2:15 2:25 2:35 2:45 2:45 3:10 3:20 3:40	354 370 370 370 370 370 370 370 370 370 370	39.10N 39.10N 39.10N 39.10N 39.08N 39.04N 39.02N 39.10N 39.11N 39.11N 39.10N 39.06N	143.78W 144.63W 145.49W 146.35W 147.22W 148.95W 150.65W 152.35W 154.90W 156.57W 158.29W 161.72W	-55. -58. -57. -56. -56. -55. -56. -57. -57. -57.	.023 .019 .0019 .0024 .0024 .0000 .008 .068 .064 .005 .005 .005 .006 .006 .006 .006 .006	134 162 178 187 174 164 135 125 141 143		10/ 5/77 10/ 5/77	0343A 0349 0404 0414 0429 0439 0449 0458 0509 0514 0519 0528	6:28 6:34 6:49 6:59 7:14 7:24 7:43 7:59 8:04 8:13	395 410 411 412 410 410 410 410 410 410 410	38.50N 38.44N 38.20N 37.97N 37.70N 37.35N 36.99N 36.71N 36.64N 36.64N 36.48N	173.56E 169.93E 169.11E 166.70B 165.10E 161.39E 159.90E 158.39E 156.85E 156.10E 155.33E 153.83E	-61. -62. -61. -64. -63. -63. -62. -54. -63. -63.	.064 .025 .034 .059 .024 .000 .000 .000 .005 .002 .000	.141 .057 .127 .103 .083 .047 .086 .053 .041 .033 .040	.27 .57
10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77	0110 0120 0130 0140 0150	3:55 4:05 4:15 4:25 4:35	390 390 390 390 390	39.10N 39.10N 39.10N 39.07N 39.02N 39.05N 39.09N	163.43W 164.29W 166.04W 167.80W 169.55W 171.28W 173.01W	-61. -62. -62.	.007 .0 .011 .0 .006 .0 .011 .0	137 154 144 151 134 168 183		10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77 10/ 5/77	0558 0604 0614 0619 0628 0638	8:43 8:49 8:59 9:04 9:13 9:23	410 410 410 410 410 410	36.12N 35.97N 35.93N 35.84N 35.78N 35.66N 35.51N 35.35N	150.84E 149.36E 148.61E 147.15E 146.39E 144.86E 143.31E 141.81E	-52. -52. -51. -51. -51.	.000 .004 .029 .035 .010 .007 .000	.100 .092 .117 .160 .149 .127 .111	.25 .22 .07 .06



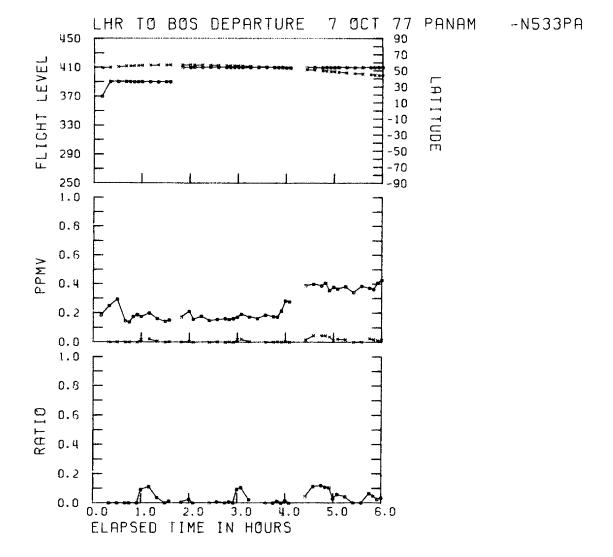
'ND TO JFK (PAGE 1 OF 1) DEPARTURE: 5 OCT 77 AIRCRAFT:PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE= .390 CABIN OZONE= .072 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .34 TOTAL OBS IN CABIN: 81 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE(	PPMV) AMB•	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	<b>L</b> ₄ <b>A</b> T	LONG	TEMP	OZONE (		RATIO
10/ 5/77 ]	1005	0:10	331	35.70N	142.76E	-45.	.000	•081		10/ 5/77	1600	6:05	390	51.31N	142.34W	-54.	.011	• 331	.03
10/ 5/77 3	1015	0:20	370	36.42N	144.22E	-49.	.000	-117	•00	10/ 5/77	1605	6:10	390	51.16N	141.16W	-53.	.027	•337	.08
10/ 5/77 1		0:40	370	37.89N	147.40E	-45.	.037	•154	•24	10/ 5/77	1615			50.87N	138.91W	-53.	.000	.266	.00
10/ 5/77	-			38.26N	148.24E	-45.	.030	•208	•14	10/ 5/77	1625			50.56N	136.63W	-50.	.000	• 344	.00
10/ 5/77 1			-	38.63N	149.10E	-44.	.006	•555	•03	10/ 5/77	1635			50.22N	134.44W	-50.	.000	•343	.00
10/ 5/77 1				38.99N	149.96E		.000	•124	• 0 0	10/ 5/77				49.83N	132.29W			•276	
10/ 5/77 1				39.44N	150.77E		.018	•123	•15	10/ 5/77				49.63N	131.23W		.000	•288	.00
10/ 5/77 1				40.32N	152.35E		.043	•079		10/ 5/77				49.42N	130.19W		.000	·250	.00
10/ 5/77 1				41.19N	153.99E		.019	•041		10/ 5/77				49.36N	129.12W		•000	-250	.00
10/ 5/77				42.04N	155.69E		.015	•033		10/ 5/77				49.34N	128.04W		.001	•239	.00
10/ 5/77 1				42.87N	157.46E		.015	•038		10/ 5/77				49.14N	123.70W		.000	.240	.00
10/ 5/77 1 10/ 5/77 1		-		43.27N	158.37E		.010	•046		10/ 5/77				48.84N	121.59W		.004	•380	.01
10/ 5/77				43.67N 44.06N	159.28E 160.22E		.019	• 042		10/ 5/77				48.22N 48.21N	119.68W		.016	•299	.05
10/ 5/77				44.41N	161.20£		.015	•034 •045		10/ 5/77 10/ 5/77				48.25N	118.61W		.000 .004	•293 •290	•00
10/ 5/77				45.08N	163.22E		.012	•042		10/ 5/77			-	48.28N	116.42W		.011	•290	.01
10/ 5/77				45.71N	165.27E		.018	•040		10/ 5/77	_			48.31N	115.32W	**	.000	.279	.00
10/ 5/77				46.31N	167.38E		.009	•042		10/ 5/77				48.33N	113.10W		.017	-296	.06
10/ 5/77 1				46.87N	169.55E		.013	• 045		10/ 5/77				48.30N	110.87W		.014	.303	.05
10/ 5/77 1				47.13N	170.64E		.037	• 055		10/ 5/77				48.24N	108.59W		.010	.318	.03
10/ 5/77 1	1250			47.63N	172.78E		.018	•097		10/ 5/77				48.13N	106.33W		.025	•361	.07
10/ 5/77 1	1255	3:00	370	47.86N	173.86E		.034	•152	•22	10/ 5/77	, -	8:55	410	48.05N	105.20W		.072	.390	18
\$10/ 5/77 ]	1305	3:10	370	48.28N	175.95E	-59.	.024	•150	.16	10/ 5/77	1855	9:00	410	47.96N	104.06W	-56.	.014	.360	.04
ದ10/ 5/77 1	1315	3:20	370	48.66N	178.07E	-54.	.000	•236	• 0 0	10/ 5/77	1900	9:05	410	47.87N	102.93W	-56.	.007	.349	.02
10/ 5/77 1	1335	3:40	370	49.52N	177.62W	-53.	.002	-185	-01	10/ 5/77	1905	9:10	410	47.76N	101.80W	-54.	.010	• 351	.03
10/ 5/77 )	1340	3:45	370	49.76N	176.53W	-53.	.024	•232	•10	10/ 5/77	1915	9:20	410	47.50N	99.55W	-53.	.000	.276	. 0.0
10/ 5/77 1				50.00N	175.41W		.023	• 228	•10	10/ 5/77	1925			47.20N	97.33W		.001	•226	.00
10/ 5/77 1				50.22N	174.30W			•246		10/ 5/77				46.85N	95.11W		.000	•267	• 0.0
10/ 5/77 1				50.43N	173.17W		.029	• 247	•12	10/ 5/77				46.46N	92.91W		.000	•230	.00
10/ 5/77 1				50.82N	170.89W		.002	•242	• 0 1	10/ 5/77				46.25N	91.82W		.006	•228	.03
10/ 5/77 1				50.99N	169.72W		.004	•216	•02	10/ 5/77		-	_	46.03N	90.74W	10	.002	•221	.01
10/ 5/77 1				51.31N	167.34W		.011	•169	•07	10/ 5/77				45.80N	89.66W		.005	•118	. 64
10/ 5/77 ]				51.58N	164.87W		.000	•110	•00	10/ 5/77				45.56N	88.62W		.017	•237	.07
10/ 5/77 1 10/ 5/77 1				51.89N	161.12W		.017	•144	•12	10/ 5/77				45.32N	87.58		.021	•246	.09
10/ 5/77 1				51.97N	159.84W		.001	•101	•01	10/ 5/77		_		44.79N	85.51¥		•000	.180	.00
				52.02N	158.53W		.000	•091	, ,	10/ 5/77	-	-		44.24N	83.52W		•006	-115	.05
10/ 5/77 1 10/ 5/77 1				52.05N 52.07N	157.23W		.024	•225	•11	10/ 5/77		10:45		43.65N	81.60W 79.75W		•000	•150	.00
10/ 5/77 1				52.04N	154.64W 152.10W		.013	•107	•12	10/ 5/77 10/ 5/77		11:00			78.83W	- 1	.001	•178	.01
10/ 5/77 1				51.79N			•000	•134	•00	10/ 5/17				42.13N 42.41N	77.93W		.063	-198	.32
10/ 5/77 1	-	-			147.16W		072	•187	. 24	10/ 5/77		11:10					.034	-170	,20
10/ 5/77 1		_		51.69N	145.94₩		.072	•210	• 34			11:15			77.14W		.014	•153	.09
10/ 2/// 1	1 222	9:00	390	51.45N	143.54W	-56•	.012	•214	•06	10/ 5/77	C110	11:12	JJ7	41.5JN	76.34W	-55.	.000	•070	

MAXIMUM VALUES: AMBIENT OZONE= .414 CABIN OZONE= .034 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .19 TOTAL OBS IN CABIN: 37 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL HR:MN	LAT LONG	TEMP	OZONE (P		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FĻ	LAT	LONG		OZONE ( CABIN		RATIO
10/ 6/77 2351 10/ 7/77 0001	0:10 351 0:20 390				•106 •242	•05	10/ 7/77 10/ 7/77				53.85N 54.04N	40.98W 39.71W		.005	•181 •207	.03
10/ 7/77 0021	0:40 390	44.98N 67.38W	-54.	.000	.242	• 0 0	10/ 7/77	0236	2:55	410	54.21N	38.42W	-54.	.002	.139	.01
10/ 7/77 0026 10/ 7/77 0031	0:45 390 0:50 390				•239 •275	•02 •02	10/ 7/77 10/ 7/77			_	54.38N 54.52N	37.14W 35.84W		.002 000	•142 •144	.01
10/ 7/77 0036 10/ 7/77 0041	0:55 390 1:00 390				·268	•00 •10	10/ 7/77 10/ 7/77				54.77N 54.96N	33.22W 30.57W		.000	•151 •165	.00
10/ 7/77 0051 10/ 7/77 0101	1:10 390	47.51N 61.69W	-59.	.011	•119	•09 •05	10/-7/77 10/-7/77	0316	3:35	410	55.07N 55.10N	27.88¥ 25.15₩	<b>-53</b> •	.016	•249 •254	7.77
10/ 7/77 0106	1:25 390	48.63N 58.70W	-57.	.004	•133 •201	•02	10/ 7/77	0331	3:50	410	55.10N	23.80W	-55.	.004	.243	.02
10/ 7/77 0116 10/ 7/77 0126	1:35 390 1:45 390	· · · · · · · · · · · · · · · · · ·			•184 •170	•00 •04	10/ 7/77 10/ 7/77				54.55N 54.05N	17.61W 15.21W		.000 .006	•165 •129	.00 .05
10/ 7/77 0131 10/ 7/77 0136	1:50 390 1:55 390				•162 •210	•07 •08	10/ 7/77 10/ 7/77				53.75N 53.53N	12.90W		.000	•121 •149	.00 .01
10/ 7/77 0141 10/ 7/77 0146	2:00 410	51.40N 51.61W	-55.	.000	.214	•00	10/ 7/77	0425	4:44	409	53.31N 53.08N	10.63W 9.54W	-58.	.000	.204	.00
10/ 7/77 0156	2:05 410 2:15 410	52.42N 48.28W	-55•	.014	• 505 • 558	•03 •07	10/ 7/77	0435	4:54	410	52.84N	8.48W	-53.	.024 .032	•125 •414	
10/ 7/77 0206 10/ 7/77 0216	2:25 410 2:35 410				•176 •192	•19 •00	10/ 7/77 10/ 7/77				52.35N 51.95N	6.41W 4.34W		.001 .020	•343 •383	.00

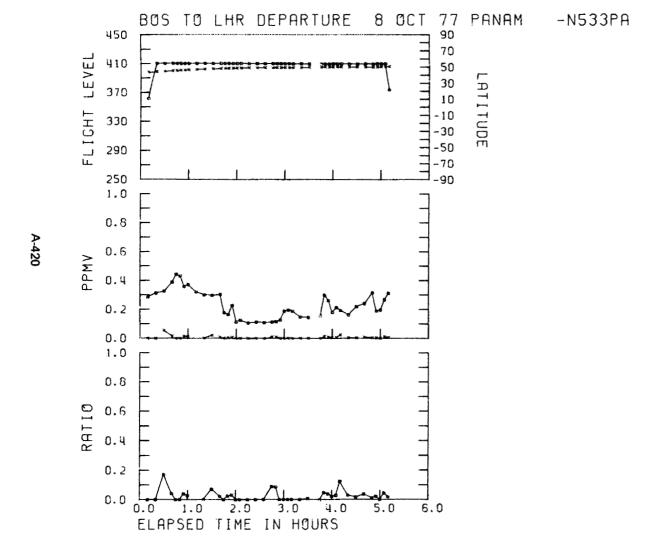


MAXIMUM VALUES: AMBIENT OZONE= .425 CABIN OZONE= .046 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .12 TOTAL OBS IN CABIN: 41 DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MŅ	FL	LAT	LONG		OZONE (		RATIO
10/ 7/77	1124	0:10	370	53.25N	2.90W	-50.		-185		10/ 7/77	1419	3:05	410	55.65N	42.18W	-56.	.020	•190	.11
10/ 7/77				54.08N	4.78W		.000	.248		10/ 7/77	1429	3:15	410	55.27N	44.25W	-57.	.004	.172	.02
10/ 7/77	1144	0:30	390	54.86N	6.81W	-55.	.000	•293	•00	10/ 7/77	1439	3:25	410	54.87N	46.25W	-55.		.162	
10/ 7/77	1154	0:40	390	55.60N	8.84W	-57.	.000	•145	• 0 0	10/ 7/77	1449	3:35	410	54.44N	48.20W	-54.	.000	.185	.00
10/ 7/77	1159	0:45	390	55.95N	9.85W	-59.	.000	•137	•00	10/ 7/77	1459	3:45	410	53.96N	50.09W	-52.	.000	.175	.00
10/ 7/77	1204	0:50	390	56.14N	10.95W	-58.		•174		10/ 7/77	1504	3:50	410	53.64N	50.95W	-52.	.002	.172	.01
10/ 7/77	1209	0:55	390	56.28N	12.07W	-56.	.000	•187	•00	10/ 7/77	1509	3:55	410	53.31N	51.79W	-51.	.000	.213	.00
10/ 7/77	1214	1:00	390	56.42N	13.22W	-55•	.016	•175	• 09	10/ 7/77	1514	4:00	410	52.98N	52.62W	-50.	.004	•283	.01
10/ 7/77	1224	1:10	390	56.67N	15.63W	-53.	.022	•198	•11	10/ 7/77	1519A	4:05	410	52.64N	53.44W	-47.	.000	•275	.00
10/ 7/77	1234	1:20	390	56.87N	18.00W	-50.	.006	•161	• 0 4	10/ 7/77	1539	4:25	410	51.26N	56.48W	-51.	.017	.389	.04
10/ 7/77	1244	1:30	390	57.01N	20.38W	-47.	.000	-141	•00	10/ 7/77	1549	4:35	410	50.51N	57.89W	<b>-50</b> .	.045	•398	.11
10/ 7/77	1249	1:35	390	57.05N	21.60W	-47.	.002	•151	•01	10/ 7/77	1559	4:45	410	49.72N	59.30W	-50.	.046	.387	.12
10/ 7/77	1304	1:50	410	57.10N	25.27W	-49.	.001	•171	•01	10/ 7/77	1604	4:50	410	49.32N	59.99W	-49.	.044	•406	.11
10/ 7/77	1314	5:00	410	57.07N	27.63W	-51.	.005	•211	• 02	10/-7/77	1609	4:55	410	48.92N	60.66W	-50.	.037	• 354	.10
10/ 7/77	1319	2:05	410	57.04N	28.81\	-52.	.000	•157	• 0 0	10/ 7/77	1614	5:00	410	48.51N	61.32W	-51.	.011	•377	.03
10/ 7/77	1329	2:15	410	56.93N	31.14W	-52.		•177		10/ 7/77	1619	5:05	410	48.10N	61.97W	-51.	.021	•366	.06
10/ 7/77	1339	2:25	410	56.75N	33.40W	-55.	.000	•148	•00	10/ 7/77	1629	5:15	410	47.27N	63.25W	-52.	.016	.381	.04
10/ 7/77	1349	2:35	410	56.54N	35.68W	-55.	.001	•155	•01	10/ 7/77	1639	5:25	410	46.48N	64.56W	-51.	.000	•341	.00
10/ 7/77	1359	2:45	410	56.28N	37.91W	-55.	.000	•16l	• 0 0	10/ 7/77	1649	5:35	410	45.81N	66.01W	-50.	.000	.384	.00
10/ 7/77	1404	2:50	410	56.14N	38.99W	-54.	.001	•154	.01	10/ 7/77	1659	5:45	410	44.99N	67.28W	-51.	.024	•371	.06
10/ 7/77	1409	2:55	410	55.99N	40.06W	-56.	.000	•161	• 0 0	10/ 7/77	1704	5:50	410	44.54N	67.88W	-51.	.017	•363	.05
10/ 7/77	1414	3:00	410	55.82N	41.13W	-56.	.016	•171	•09	10/ 7/77	1709	5:55	410	44.09N	68.46W	-51.	.010	•406	.02
A-41										10/ 7/77	1714	6:00	410	43.64N	69.04W	-52.	.014	•425	.03

MAXIMUM VALUES: AMBIENT OZONE= .094 CABIN OZONE=0.000 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = \*\*\*\*\* TOTAL OBS IN CABIN: 3
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL LAT HR:MÑ	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN:	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
10/ 7/77 2239 10/ 7/77 2249	0:10 366 42.25N 0:20 370 42.27N	80.61W -57000 .043 78.50W -58053	10/ 7/77 2259 0:30 370 42.49N 10/ 7/77 2304A 0:35 357 42.60N 10/ 7/77 2314 0:45 276 42.70N	76.49\\ -58. \ .050 75.44\\ -54. \ .000 \ .094 73.43\\ -39. \ .000 \ .089

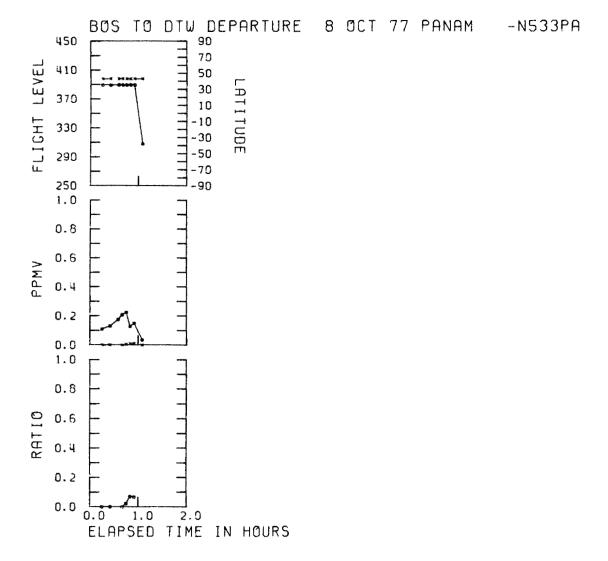


MAXIMUM VALUES: AMBIENT OZONE= .442 CABIN OZONE= .055 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .17 TOTAL OBS IN CABIN: 41 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TEM		E(PPMV) N AMR.		MO/DA/YR	GMT	ETIM (	FL LAT	LONG		OZONE ( CABIN		RATIO
10/ 8/77 0318	0:10 362		68.49W -52				10/ 8/77			10 49.10N	33.96W		.010	-116	
10/ 8/77 0328	0:20 410		66.73W -49				10/ 8/77	_		10 49.09N	32.82W	-1	.000	•127	.00
10/ 8/77 0338	0:30 410		64.90W -51				10/ 8/77			10 49.06N	31.68W		.000	•188	00
10/ 8/77 0348	0:40 410		62.98W -51		-		10/ 8/77			10 49.02N	30.59W		.000	•195	
10/ 8/77 0353	0:45 410		61.98W -52				10/ 8/77			10 49.07N	29.51W		.000	•188	.00
10/ 8/77 0358	0:50 410		60.97W -52		0 •431	• 0 0	10/ 8/77		f "	10 49.35N	27.35W		•000	.148	
10/ 8/77 0403	0:55 410	) 45.88N	59.94W -53	01	4 •358	•04	10/ 8/77	063B		10 49.60N	25.15W	-53.	.001	·145	.01
10/ 8/77 0408	1:00 410	) 46.15N	58.89W -54	01	0 •371	•03	10/ 8/77	0653	3:45 4	10 49.88N	21.82W	-49.	.000	•156	.00
10/ 8/77 0418	1:10 410	46.67N	56.75W -54	•	•321		10/ 8/77	0658	3:50 4	10 49.96N	20.72W	-49.	.014	.298	.05
10/ 8/77 0428	1:20 410	47.15N	54.56W -53	00	1 .300	•00	10/ 8/77	0703	3:55.4	10 50.02N	19.62W	-50.	.010	.261	.04
10/ 8/77 0438	1:30 410	47.57N	52.38W -59	02	1 .296	• 07	10/ 8/77	0708	4:00 4	10 50.07N	18.49W	-49.	-004	.180	.02
10/ 8/77 0448	1:40 410	47.95N	50.26W -56	00	7 .303	•02	10/ 8/77	0713	4:05 4	10 50.11N	17.37W	-49.	.006	•213	.03
10/ 8/77 0453	1:45 410	48.15N	48.96W -58			• 0 0	10/ 8/77	071B	4:10 4	10 50.13N	16.24W		.024	.194	.12
10/ 8/77 0458		48.30N	47.79W -59				10/ 8/77		3	10 50.15N	13.96W		.005	.163	
10/ 8/77 0503		48.44N	46.64W -60			_	10/ 8/77	-	5	10 50.13N	11.71W		.004	.220	.02
10/ 8/77 0508	2:00 410		45.47W -61				10/ 8/77			10 50.07N	9.48W		.009	.240	· ·
10/ 8/77 0513	2:05 410		44.29W -60		_		10/ 8/77			10 50.05N	7.28W		.004	•315	.01
10/ 8/77 0523	2:15 410		41.97W -59				10/ 8/77			10 50.11N	6.19W		.004	189	
10/ 8/77 0533	2:25 410		39.68W -61				10/ 8/77			10 50.22N	5.13W				-
											-		•000	•196	.00
10/ 8/77 0543	2:35 410		37.38W -61		_		10/ 8/77	_		10 50.38N	4.06W		.012	•267	
10/ 8/77 0553	2:45 410	49.11N	35.10W -61	01	0 •113	•09	10/ 8/77	0818	5:10 3	74 50.63N	3.03W	-45.	.006	•312	.02

MAXIMUM VALUES: AMBIENT OZONE + .388 CABIN OZONE + .085 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .27 TOTAL OBS IN CABIN: 36 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/D	A/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
10/	8/77	1201	0:10	359	53.09N	2.27W	-45.	.008	•146	•05	10/ 8/77	1451	3:00	390	55.98N	40.11W	-48.	.011		
10/	8/77	1211	0:20	390	53.84N	4.20W	-46.	.009	•388	.02	10/ 8/77	1501	3:10	390	55.65N	42.17W	-49.	.021	·286	.07
10/	8/77	1221	0:30	390	54.62N	6.18W	-46.	.000	•387	-00	10/ 8/77	1511	3:20	390	55.28N	44.20W	-49.	.007	.384	.02
10/	8/77	1231	0:40	390	55.38N	8.22W	-46.	.048	•379	•13	10/ 8/77	1521	3:30	390	54.88N	46.21W	-49.	.085	.313	.27
10/	8/77	1236	0:45	390	55.75N	9.26W	-45.	.002	• 349	•01	10/ 8/77	1531	3:40	390	54.43N	48.20W	-49.	.006	.346	.02
10/	8/77	1241	0:50	390	56.05N	10.35W	-44.	.000	•233	•00	10/ 8/77	1536	3:45	390	54.20N	49.18W	<b></b> -50∙	.015	.262	.06
10/	8/77	1246	0:55	390	56.21N	11.54W	-47.	.000	•206	•00	10/ 8/77	1546	3:55	390	53.63N	50.97¥	-50.	.013	.292	.04
10/	8/77	1251	1:00	390	56.36N	12.72W	-46.	.005	•264	•02	10/ 8/77	1556	4:05	390	52.97N	52.64W	-51.	.012		
10/	8/77	1301	1:10	390	56.62N	15.15W	-48.	.005	•268	•02	10/ 8/77	1606	4:15	390	52.28N	54.28W	-52.	.009		
10/	8/77	1311	1:20	390	56.83N	17.56W	-50.	.012	•205	•06	10/ 8/77	1616	4:25	390	51.56N	55.88W	-51.	.012		
10/	8/77	1321	1:30	390	57.00N	19.97W	-51.	.016	•314	• 05	10/ 8/77	1626	4:35	390	50.86N	57.52W	-52.	.060		
10/	8/77	1331	1:40	390	57.07N	22.35W	-54.	.023	.214	-11	10/ 8/77	1636	4:45	390	50.13N	59.14W	-53.	.024		
10/	8/77	1336	1:45	390	57.09N	23.55W	÷56 •	.026	•179	•15	10/ 8/77	1641	4:50	390	49.74N	59.95W	-53.	.035		
10/	8/77	1341	1:50	390	57.10N	24.73W	-56.	.013	•190	•07	10/ 8/77	1645	4:55	390	49.35N	60.74W	-53.	.023		
10/	8/77	1346	1:55	390	57.10N	25.89W	-55.	.012	•204	•06	10/ 8/77	1656	5:05	390	48.55N	62.30W	-55.		• 352	
10/	8/77	1351	5:00	390	57.08N	27.04W	-56.	.017	•236	•07	10/ 8/77	1706	5:15	390	47.73N	63.82W	-58.		.243	
10/	8/77	1401	5:10	390	57.02N	29.31W	-54.	.018			10/ 8/77	1716	5:25	390	46.83N	65.14W	-64.		.108	
10/	8/77	1411	2:20	390	56.90N	31.54W	-52•	.009			10/ 8/77	1726	5:35	390	45.92N	66.37W	-64.		.076	
10/	8/77	1421	5:30	390	56.72N	33.79W	-51.	.000			10/ 8/77	1731	5:40	390	45.46N	66.97W	-64.		•078	
10/	8/77	1431	2:40	390	56.50N	36.03W	-49.	.034			10/ 8/77	1736	5:45	390	45.00N	67.55W	-64.		•082	
10/	8/77	1441	2:50	390	56.26N	38.07W	-50.	.011			10/ 8/77	1741	5:50	390	44.55N	68.12W	-64.		.085	
» <sup>10</sup> /	8/77	1446	2:55	390	56.13N	39.09W	-49.	.010			10/ 8/77	1745	<b>5:5</b> 5	390	44.10N	68.67W	-62.		.091	
ī																				



MAXIMUM VALUES: AMBIENT OZONE= .224 CABIN OZONE= .010 RATIO (LIMITED TO AMB. OZONE ABOVE G.1)= .07 TOTAL OBS IN CABIN: 7 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) (C) CABIN AMB.		MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
10/ 8/77 2028	0:15 389 42.96N	73.82W -60000 .109	• 0 0	10/ 8/77 2058 0:45 389 43.00N	78.07W -59005 .224 .02
10/ 8/77 2038	0:25 389 43.07N	75.23W -59000 .130		10/ 8/77 2103 0:50 389 43.00N	78.82W -57009 .128 .07
10/ 8/77 2048	0:35 389 43.11N	76.64W -61175		10/ 8/77 2108 0:55 389 43.04N	79.56W -55010 .149 .07
10/ 8/77 2053	0:40 389 43.02N	77.35W -59000 .207		10/ 8/77 2118 1:05 308 43.03N	81.06W -45000 .036

BOS TO LHR DEPARTURE

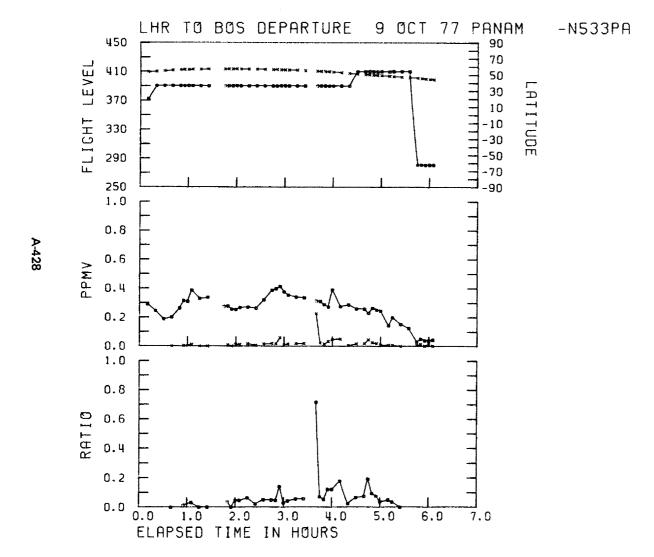
-N533PA

PANAM

9 ØCT

MAXIMUM VALUES: AMBIENT OZONE= .457 CABIN OZONE= .085 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .43 TOTAL OBS IN CABIN: 35 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL HR:MN	LAT LON		OZONE (		RATIO	MO/na/YR	GMT	ETIM HR:MN	FL LAT	LONG TEM	P OZONE (		RATIO
10/ 9/77 0152 10/ 9/77 0202 10/ 9/77 0211 10/ 9/77 0222 10/ 9/77 0232 10/ 9/77 0233 10/ 9/77 0242 10/ 9/77 0242 10/ 9/77 0302 10/ 9/77 0311 10/ 9/77 0322 10/ 9/77 0332	0:10 349 0:20 370 0:29 370 0:40 370 0:45 370 0:50 370 0:55 370 1:00 370 1:10 370 1:20 410 1:29 410 1:40 410	45.92N 68.4 47.21N 67.2 48.43N 66.0 49.02N 65.4 49.61N 64.7 50.20N 64.1 50.79N 62.1 51.94N 62.1 53.06N 60.7 54.14N 59.1 55.18N 57.4		.006 .004 .027 .008 .010 .077 .008 .012 .012		•16 •05 •06 •43 •04 •10 •03 •12	10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 (	0437 0451 0502 0511 0522 0527 0532 0537 0551 0602	2:50 4 2:55 4 3:09 4 3:20 4 3:40 4 3:45 4 3:55 4 4:09 4 4:20 4	10 59.88N 10 60.15N 10 61.04N 10 61.56N 10 61.97N 10 62.03N 10 62.03N 10 62.03N 10 62.01N 10 61.78N 10 61.78N 10 61.52N 10 61.19N 10 60.60N	40.62W -47 39.25W -46 35.16W -47 32.35W -48 29.43W -49 26.40W -48 24.89W -49 23.39W -48 21.87W -49 17.47W -46 11.80W -46	085 .040 .034 .081 .029 .078 .036 .035 .009 .017	.351 .353 .457 .375 .352 .349 .323 .306 .210 .249 .309	.11 .07 .22 .08 .24 .12 .13 .04
10/ 9/77 0337 10/ 9/77 0352 10/ 9/77 0402 10/ 9/77 0411 10/ 9/77 0422 10/ 9/77 0427	1:55 410 2:10 410 2:20 410 2:29 410 2:40 410 2:45 410	56.48N 54.4 57.65N 50.9 58.32N 48.5 58.89N 45.9 59.42N 43.3	0W -47 9W -47 5W -46 9W -45 2W -46 8W -46	.034 .017 .046 .031	•350 •334 •326 •342 •348 •350	•10 •05 •14 •09	10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 ( 10/ 9/77 (	0627 0637 0651 0701 0711	4:45 4 4:55 4 5:09 4 5:19 4	10 60.02N 10 58.87N 10 57.12N 10 55.93N 10 54.65N	8.55W -46 7.06W -46 5.04W -46 3.81W -47 2.92W -48 2.21W -50	037 017 015 041	•262 •260 •302 •282	.14 .06 .05



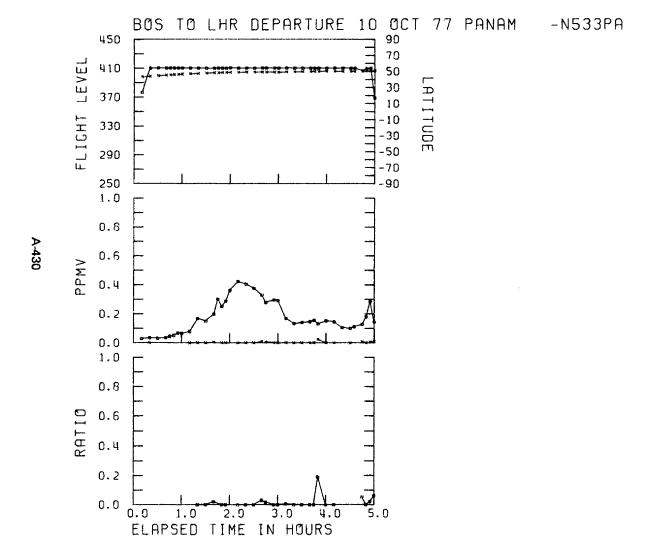
LHR TO BOS (PAGE 1 OF 1)

DEPARTURE: 9 OCT 77

AIRCRAFT:PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE= .413 CABIN OZONE= .225 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .72 TOTAL OBS IN CABIN: 40 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO
10/ 9/77 10/ 9/77		-		53.28N 54.01N	2.69W			•290		10/ 9/77 10/ 9/77				55.60N 55.23N	42.44W		.019	•340 •335	.06 .06
10/ 9/77			-	54.75N	4.55W			•245 •188		10/ 9/77				54.59N	47.54W		.225	•335	.72
10/ 9/77			-	55.48N	8.50W		.000	•200	•00	10/ 9/77				54.35N	48.56W		.022	•310	.07
10/ 9/77	_			56.09N	10.63W		••••	•263	•••	10/ 9/77				54.11N	49.56W		.015	•288	
10/ 9/77				56.24N	11.79W		.004	•314	•01	10/ 9/77				53.81N	50.51W		.033	•272	.12
10/ 9/77	-			56.38N	12.91W			•309		10/ 9/77				53.46N	51.42W		.047	•390	-
10/ 9/77	1148	1:05	390	56.51N	14.07W	-48.	.012	•387	•03	10/ 9/77	1453	4:10	390	52.75N	53.18W	-53.	.049	.275	.18
10/ 9/77	1158	1:15	390	56.74N	16.39W	-51.	.000	•330	•00	10/ 9/77	1503	4:20	390	52.04N	54.84W	-53.	.007	.287	.02
10/ 9/77		1:25	390	56.91N	18.65W	-49.	.000	•337	• 0 0	10/ 9/77		4:30	410	51.33N	56.45W	-54.	.017	• 259	.07
10/ 9/77		1:45	390	57.09N	23.20W	-52•		• 275		10/ 9/77				50.65N	58.00W	-54.	.019	• 258	.07
10/ 9/77	_	_		57.10N	24.31W			•277		10/ 9/77				50.30N	58.78W		.044	• 229	.19
10/ 9/77				57.10N	25.41W		.000	• 256		10/ 9/77				49.94N	59.55W		.025	•264	.09
10/ 9/77				57.09N	26.52W			•253	• 05	10/ 9/77				49.58N	60.29W		.019	•252	.08
10/ 9/77				57.07N	27.62W			•267	• 0 4	10/ 9/77				49.22N	61.01W		.009	•244	.04
10/ 9/77				57.01N	29.79W			•270	• 06	10/ 9/77			_	48.50N	62.42W		.007	-143	.05
10/ 9/77				56.87N	31.95W			•263	•02	10/ 9/77				48.14N	63.09W		.007	•198	• 04
10/ 9/77	-			56.69N	34.07W			•321	• 05	10/ 9/77				47.41N	64.39W		.000	152	• 0:0
10/ 9/77				56.48N	36.18W		.019	•387	• 05	10/ 9/77			-	46.68N	65.64W			.124	
10/ 9/77	-			56.36N	37.22W	-		•397	• 05	10/ 9/77			_	45.94N	66.85W		.008	.031	
10/ 9/77			_	56.23N	38.27W			•413	-14	10/ 9/77			-	45.47N	67.43W		.014	•050	
10/ 9/77				56.09N	39.33W		.011	•376	•03	10/ 9/77				44.98N	67.97W		.001	• 040	
₹10/ 9/77	1348	3:05	390	55.94N	40.37W	-49.	.015	• 354	• 0 4	10/ 9/77			_	44.49N	68.49W		.017	•038	
29										10/ 9/77	1648	6:05	281	44.00N	69.01W	-33.	.001	•043	



MAXIMUM VALUES: AMBIENT OZONE= .423 CABIN OZONE= .044 RATIO (LIMITED TO AMB. OZONE ABOVĘ 0.1)= .19 TOTAL OBS IN CABIN: 28 DATA SOURCE: GASP TAPE VL014, FILE 1

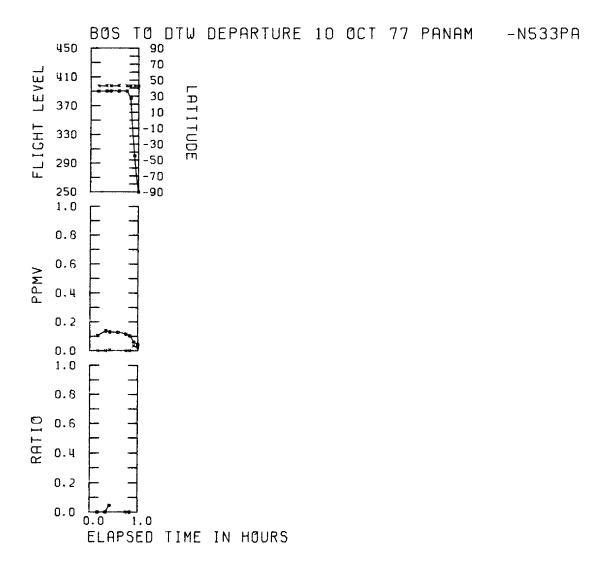
MO/DA/YP	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MOVDA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
10/10/77	0107	0:10	377	43.22N	68.24W	-56•		•030		10/10/77	0337	2:40	411	49.11N	34.89W	-51.	.010	•330	.03
10/10/77	0117	0:20	410	43.85N	66.11W	-65.	.000	• 035		10/10/77	0342	2:45	410	49.10N	33.73W	-52.	•005	•279	.02
10/10/77	0127	0:30	410	44.57N	64.00W	-65.		•032		10/10/77	0352	2:55	410	49,05N	31.43W	-52.	.000	•296	.00
10/10/77	0137	0:40	410	45.25N	61.83W	-65.		•036		10/10/77	0357	3:00	410	49.01N	30.27W	-52.	.000	.292	.00
10/10/77	0142	0:45	410	45.57N	60.73W	-65•	.044	.046		10/10/77	0407	3:10	410	49.26N	28.03W	-53.	.001	.169	.01
10/10/77	0147	0:50	410	45.88N	59.63W	-65.		•051		10/10/77	0417	3:20	410	49.53N	25.76W	-56.	.000	.134	.00
10/10/77	0152	0:55	410	46.17N	58.54W	-65.		•067		10/10/77	0427	3:30	410	49.75N	23.46W	-59.	.000	•141	.00
10/10/77	0157	1:00	410	46.45N	57.45W	-65.		•065		10/10/77	0437	3:40	410	49.94N	21.04W	-61.	.000	.146	.00
10/10/77	0207	1:10	410	46.97N	55.25W	-66.	.000	·078		10/10/77	0442	3:45	410	50.01N	19.82W		.000	156	0.0
10/10/77	0217	1:20	410	47.44N	53.06W	-63.	.000	•168	•00	10/10/77	0447	3:50	410	50.06N	18.61W	-61.	.025	•132	.19
10/10/77	0227	1:30	410	47.84N	50.91W	-64.	.000	•151	• 0 0	10/10/77	0457	4:00	410	50.13N	16.23W	-61·	.000	•152	.00
10/10/77	0237	1:40	410	48.18N	48.72W	-62.	.004	-198	•02	10/10/77	0507	4:10	410	50.15N	13.86W	-60.	.000	-145	.00
10/10/77	0242	1:45	410	48.32N	47.58¥	-59.		•302	_	10/10/77	0517	4:20	410	50.13N	11.50W	-65.		•105	-
10/10/77		1:50	410	48.46N	46.45W	-54.	.000	.252	•00	10/10/77	0527	4:30	410	50: 06N	9.25W	-65.	.000	.099	
10/10/77	0252	1:55	410	48.58N	45.35W	-54.	.000	.288	•00	10/10/77	0532	4:35	410	50.01N	8.10W	-65.		-111	
10/10/77	0257	2:00	411	48.69N	44.18W	-51.		•362		10/10/77	0542	4:45	407	50.26N	5.85W	-65.	.007	.128	.05
10/10/77	0307	2:10	410	48.88N	41.84W	-50.	.000	•423	•00	10/10/77	0547	4:50	410	50.45N	4.73W	-62.	.000	.182	.00
10/10/77				49.02N	39.52W		.000	-406	•00	10/10/77	0552	4:55	410	50.67N	3.63W	-57.	.006	•286	.02
10/10/77	-			49.09N	37.20W		.000	•377	• 0 0	10/10/77		5:00	369	50.88N	2.54W	-58.	.009	•145	.06

A-432

MAXIMUM VALUES: AMBIENT OZONE= .434 CABIN OZONE= .062 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .35 TOTAL OBS IN CABIN: 38
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

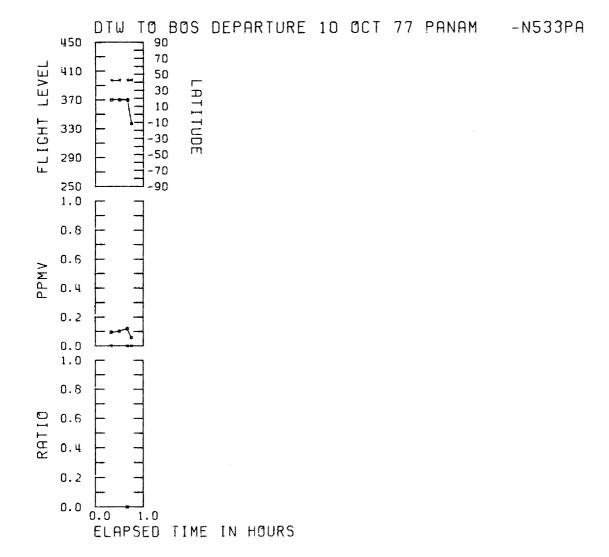
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
10/10/77	_		-	51.75N	3.55W			•040		10/10/77		,	_	53.61N	42.54N		.037	•153	
10/10/77				52.14N	5.27W			•088		10/10/77	_			53.29N	44.33W		.021	•113	. 19
10/10/77				52.59N	7.05W	-62•		•104		10/10/77			_	53.12N	45.18W		.000	•115	.00
10/10/77	-	0:40	391	52.97N	8.88W	-61.	.001	•142	•01	10/10/77				52.85N	46.49W	-	.026	• 086	
10/10/77	1106	0:46	391	53.16N	9.82W	-62•	.000	-114	•00	10/10/77	1418			52.50N	47.99W		.000	.034	
10/10/77	1115	0:55	391	53.47N	11.58W	-65•		•074		10/10/77	1428		_	52.16N	49.40W		.011	•028	
10/10/77	1120	1:00	391	53.62N	12.44W	-64.		• 065		10/10/77	1433	4:13	393	51.98N	50.09W	-62.	.022	•028	
10/10/77	1130	1:10	391	53.88N	14.18W	-63.		•083		10/10/77	1448	4:28	393	51.20N	52.16W	-62.	•000	•026	
10/10/77	1140	1:20	391	54.21N	15.97W	-61.		•119		10/10/77	1458	4:38	390	50.68N	53.48W	-62.	.000	.027	
10/10/77	1145A	1:25	391	54.40N	16.86W	-62.	.002	•114	-02	10/10/77	1508	4:48	390	50.14N	54.79W	-61.	.000	.023	
10/10/77	1155	1:35	393	54.77N	18.75W	-60.		•161		10/10/77	1513	4:53	390	49.88N	55.40W	-61.		.024	
10/10/77	1205	1:45	393	55.03N	20.78W	-60.	.000	+188	•00	10/10/77	1518	4:58	390	49.60N	56.04W	-60.	.000	.032	
10/10/77	1210	1:50	393	55.07N	21.85W	-56.	.000	.208	•00	10/10/77	1523	5:03	390	49.37N	56.68W	-60.		.033	
10/10/77	1215	1:55	393	55.10N	22.92W	-57.	.000	.209	• 0 0	10/10/77	1528	5:08	390	49.14N	57.36W	-60.		.033	
10/10/77	1220	5:00	393	55.11N	24.03W	-57.	.000	•211	•00	10/10/77	1538	5:18	390	48.69N	58.68W	<b>~59.</b>	.007	.048	
10/10/77	1225	2:05	393	55.12N	25.17W	-55.	.000	.208	.00	10/10/77	1543	5:23	390	48.45N	59.34W	-59.	.001	.064	
10/10/77	1235	2:15	393	55.09N	27.43W	-52.	.041	.283	.14	10/10/77	1553	5:33	390	47.96N	60.65W	-56.	.000	.132	.00
10/10/77	1245			55.02N	29.73W	-51.	.000	.292	•00	10/10/77	1603	5:43	390	47.43N	62.02W	-54.	.015	.185	.08
10/10/77	1255	2:35	393	54.88N	31.95W	-48.	.014	•292	• 05	10/10/77	1613	5:53	390	46.86N	63.43W	-53.	.023	.131	.18
10/10/77	1305	2:45	392	54.69N	34.14W	-48.	.025	•432	•06	10/10/77	1618	5:58	390	46.57N	64.12W	-53.	.006	.104	.06
10/10/77	1315	2:55	393	54.47N	36.34W	-49.	.029	•434	•07	10/10/77	1623	6:03	390	46.28N	64.81W	-52.	.010	.112	.09
10/10/77	1320	3:00	392	54.35N	37.41W	-49.	.025	• 365	•07	10/10/77	1628	6:08	39¢	45.97N	65.51W	-52.	.002	•112	.02
\$10/10/77	1325			54.22N	38.47W	-48.	.018	•315	•06	10/10/77	1633	6:13	390	45.66N	66.21W	-53.	.039	.112	. 35
₩10/10/77	1335	3:15	393	53.93N	40.57W	-53.	.062	•331	•19	10/10/77	1643	6:23	388	45.04N	67.54W	-55.	.000	.104	.00
	_		_		·					10/10/77	1653	6:33	370	44.39N	68.88W	-54.	.001	•098	





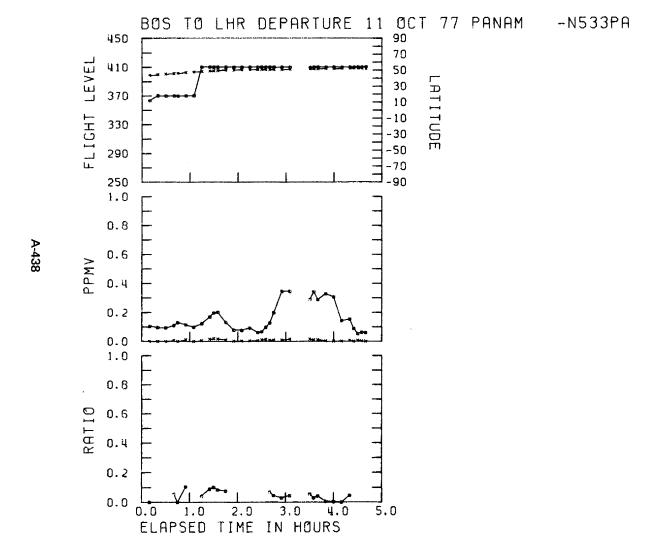
MAXIMUM VALUES: AMBIENT OZONE= .137 CABIN OZONE= .035 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .05 TOTAL OBS IN CABIN: 7 DATA SOURCE: GASP TAPE VL014. FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) (C) CABIN AMB.	RATIO	MO/DA/YR GMT ETIM FL HR:MN	LAT L	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
10/10/77 1903 10/10/77 1913 10/10/77 1918 10/10/77 1928	0:10 390 42.85N 0:20 390 43.01N 0:25 390 43.09N 0:35 390 43.08N	73.09W -55000 .105 74.67W -54000 .137 75.47W -56006 .129 77.08W -55127	•00	10/10/77 1938 0:45 390 10/10/77 1943 0:50 380 10/10/77 1948 0:55 300 10/10/77 1953 1:00 241	42.79N 79 42.77N 80	8.65W -55000 .115 .00 9.43W -56000 .104 .00 0.22W -45035 .061 1.06W -31021 .043



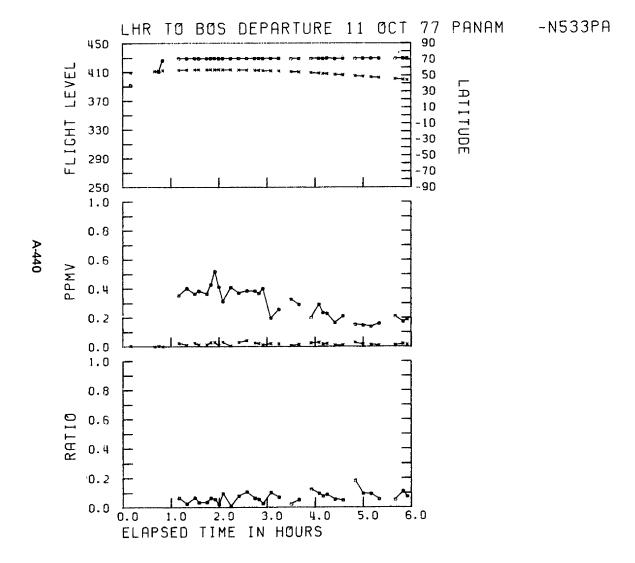
MAXIMUM VALUES: AMBIENT OZONE= .119 CABIN OZONE=0.000 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 0.00 TOTAL OBS IN CABIN: 3
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
10/10/77 2235	0:20 370 42.25N	78.54W -54000 .095		74.35W -55000 .119 .00
10/10/77 2245	0:30 370 42.48N	76.46W -55102		73.39W -50000 .059



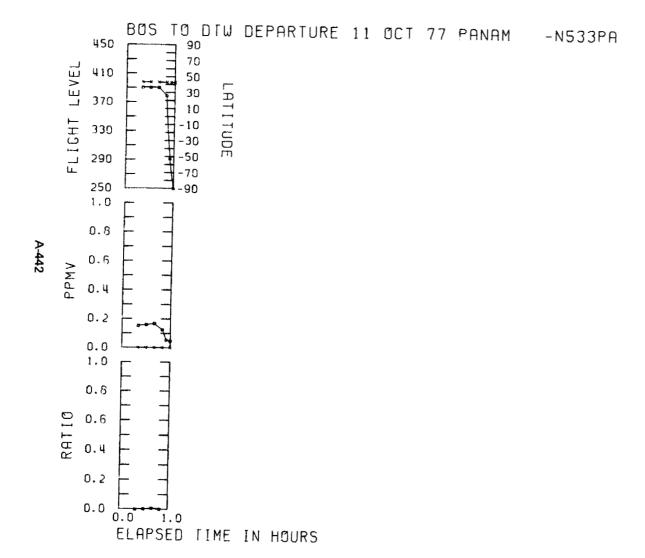
MAXIMUM VALUES: AMBIENT OZONE= .345 CABIN OZONE= .020 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .10 TOTAL OBS IN CABINES 33 DATA SOURCE: GASP TAPE VL014, FILE 1

10/11/77 0200 0:40 370 46.12N 63.32W -52006 .109 .06 10/11/77 040R 2:48 410 51.08N 32.57W -58009 .199 .05 10/11/77 0205 0:45 370 46.46N 62.31W -51000 .129 .00 10/11/77 041R 2:58 410 51.01N 30.16W -54010 .345 .03 10/11/77 0218 0:58 370 47.42N 59.56W -51012 .115 .10 10/11/77 042R 3:08 410 51.29N 27.88W -50015 .345 .04 10/11/77 022R 1:08 370 48.11N 57.36W -52000 .09R 10/11/77 0453 3:33 410 51.86N 22.10W -46016 .289 .06 10/11/77 023R 1:18 410 48.74N 55.14W -54005 .121 .04 10/11/77 045R 3:38 410 51.94N 20.93W -46010 .342 .03 10/11/77 024R 1:28 410 49.33N 52.87W -55015 .169 .09 10/11/77 0503 3:43 410 52.00N 19.75W -46012 .288 .04 10/11/77 025R 1:38 410 49.88N 50.55W -57017 .201 .08 10/11/77 0503 3:43 410 52.00N 15.06W -50001 .306 .00 10/11/77 030R 1:48 410 50.26N 48.12W -59010 .132 .08 10/11/77 0533 4:13 410 52.31N 12.65W -54000 .143 .00	MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV (C) CABIN AMB		MOZĎAZYR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZONE(PPMV) RATIO CABIN AMR.
10/11/77 0328 2:08 410 50.80N 42.97W -59002 .076	10/11/77 0140 10/11/77 0150 10/11/77 0200 10/11/77 0205 10/11/77 0218 10/11/77 0238 10/11/77 0248 10/11/77 0253 10/11/77 0258 10/11/77 0308 10/11/77 0318 10/11/77 0328 10/11/77 0328	0:20 370 44.72N 0:30 370 45.54N 0:40 370 46.12N 0:45 370 46.46N 0:58 370 47.42N 1:08 370 48.11N 1:18 410 48.74N 1:28 410 49.33N 1:33 410 49.88N 1:38 410 49.88N 1:48 410 50.26N 1:58 410 50.55N 2:08 410 50.80N 2:18 410 50.98N	67.25W -53000 .09 65.41W -52000 .09 63.32W -52006 .10 62.31W -51000 .12 59.56W -51012 .11 57.36W -52000 .09 55.14W -54005 .12 52.87W -55015 .16 51.75W -56020 .19 50.55W -57017 .20 48.12W -59010 .13 45.57W -60002 .07 42.97W -59002 .07 40.35W -59004 .09	5 3 9 • 06 9 • 00 5 • 10 8 1 • 04 9 • 09 9 7 • 10 1 • 08 2 • 08 8 6 6 2	10/11/77 0358 10/11/77 0403 10/11/77 0408 10/11/77 0418 10/11/77 0458 10/11/77 0458 10/11/77 0503 10/11/77 0513 10/11/77 0523 10/11/77 0533 10/11/77 0543 10/11/77 0543 10/11/77 0558 10/11/77 0558	2:38 410 51.11N 2:43 410 51.10N 2:48 410 51.08N 2:58 410 51.01N 3:08 410 51.29N 3:33 410 51.86N 3:38 410 51.94N 3:43 410 52.00N 4:03 410 52.00N 4:13 410 52.31N 4:23 410 52.58N 4:28 410 52.69N 4:33 410 52.53N 4:38 410 52.33N	35.09W -61. 33.81W -61. 32.57W -58. 30.16W -54. 27.88W -50. 22.10W -46. 19.75W -46. 17.39W -47. 15.06W -50. 12.65W -54. 10.25W -59. 9.01W -64. 7.89W -65. 6.78W -66.	.015 .097 .009 .127 .07 .009 .199 .05 .010 .345 .03 .015 .345 .04 .016 .289 .06 .010 .342 .03 .012 .289 .04 .002 .328 .01 .001 .306 .00 .000 .143 .00 .007 .153 .05 .000 .088 .006 .053 .002 .062



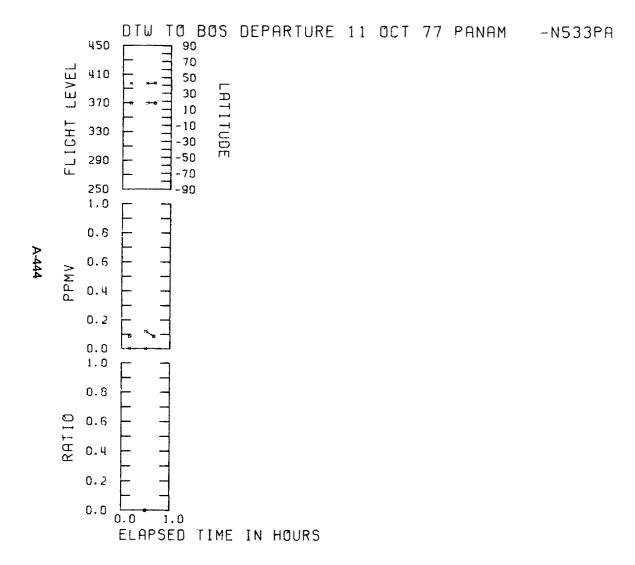
MAXIMUM VALUES: AMBIENT OZONE= .518 CABIN OZONE= .041 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .18 TOTAL OBS IN CABIN: 36 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR G	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RATIO
10/11/77 10				53.15N 55.27N	2.60W 7.93W		.005			10/11/77 10/11/77				56.01N 55.68N	39.89W 42.00W		.011	•400 •196	•
10/11/77 11	115	0:46	410	55.63N	8.92W	-56.	.004			10/11/77	1344	3:15	429	55.31N	44.07W	-53.	.018	•256	
10/11/77 11				55.99N 56.58N	9.97W		.000	•354	•06	10/11/77 10/11/77				54.68N 54.22N	47.12W 49.12W		.008 .015	•327 •291	.02 .05
10/11/77 11				56.81N 56.98N	17.21W 19.71W		.010 .024	•401 •365	•02 •07	10/11/77				53.28N 52.60N	51.87W 53.54W		.025 .028	•200 •291	.13
10/11/77 12	204	1:35	429	57.03N	20.96W	-48.	.013	•384	•03	10/11/77	1439	4:10	429	52.23N	54.40W	-50.	.018	.234	.08
10/11/77 12				57.09N 57.10N	23.45W 24.70W		.013 .027	•364 •428	•04 •06	10/11/77 10/11/77				51.86N 51.17N	55.23W 56.82W		.020 .009	•228 •165	<b>.</b>
10/11/77 12				57.10N 57.08N	25.92W 27.17W		_		•06 •02	10/11/77 10/11/77				50.47N 49.38N	58.40W 60.69W		.010	•210 •152	
10/11/77 12	234	2:05	429	57.05N	28.37W	-51.	.030	•313	•10	10/11/77	1530	5:01	429	48.65N	62.12W	<b>≂57</b> •	.014	.147	.10
10/11/77 12	255	2:26	429	56.95N 56.78N	30.74W 33.11W	-51.		•408 •371	•01 •08	10/ <sub>1</sub> 1/77 10/ <sub>1</sub> 1/77	1549	5:20	429	47.92N 47.16N	63.47W 64.83W	-58.	.013	•139 •159	-
10/11/77 13				56.56N 56.31N	35.41W 37.67W		.041 .024	•385 •384	•11 •06	10/11/77 10/11/77				45.51N 44.56N	67.37W 68.39W		.011 .019	•210 •173	- · <u>-</u>
10/11/77 13	319	2:50	429	56.17N	38.77W	-55.	.020	•367	•05	10/11/77				44.08N	68.89W	-58.	.014	-188	



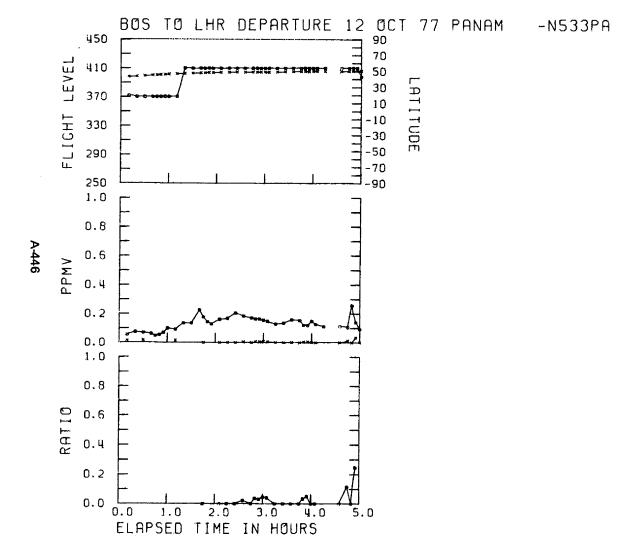
MAXIMUM VALUES: AMBIENT OZONE= .167 CABIN OZONE= .001 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .01 TOTAL OBS IN CABIN: 5 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) (C) CABIN AMB		MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
10/11/77 1938	0:20 390 43.00N	74.94W -58000 .154	•00	10/11/77 2008 0:50 379 42.64N	79.32W ~56000 .124 .00
10/11/77 1948	0:30 390 42.98N	76.43W -58000 .159		10/11/77 2013 0:55 291 42.64N	80.09W ~41053
10/11/77 1958	0:40 390 42.83N	77.89W -58001 .167		10/11/77 2018 1:00 244 42.50N	80.86W ~29000 .046



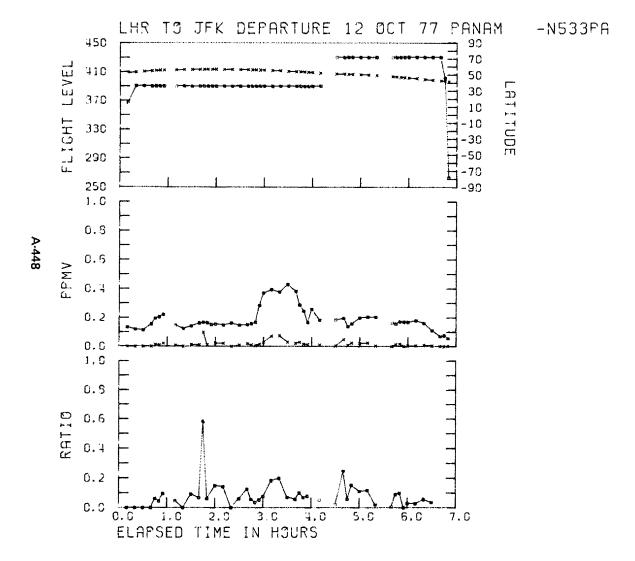
MAXIMUM VALUES: AMBIENT OZONE= .120 CABIN OZONE=0.000 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 0.00 TOTAL OBS IN CABIN: 2
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.



MAXIMUM VALUES: AMBIENT OZONE= .257 CABIN OZONE= .034 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .24 TOTAL OBS IN CABIN: 26 DATA SOURCE: GASP TAPE VL014, FILE 1

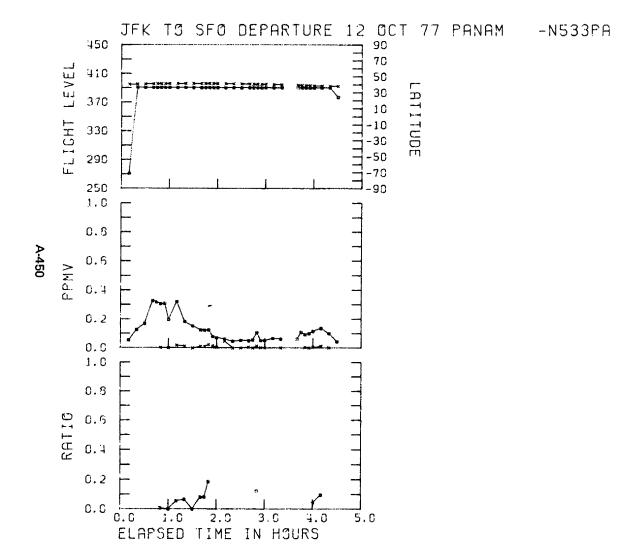
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (	PPMV) AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO
10/12/77	_			43.22N	68.03W		.014	• 056		10/12/77				49.03N	34.17W		.000	-171	
10/12/77				43.92N	66.04W			•074		10/12/77				49.01N	33.01W		.006	•164	
10/12/77			_	44.57N	64.08W		.018	•069		10/12/77	-			48.98N	31.84W		.005	•163	• 03
10/12/77	0148	0:40	370	45.19N	62.09W	-56.		• 062		10/12/77	0408	3:00	410	48.94N	30.68W	-57.	.007	•156	.04
10/12/77	0153	0:45	370	45.48N	61.08W	-58.		.049		10/12/77	0413	3:05	410	48.96N	29.55W	-56.	.006	.147	.04
10/12/77	0158	0:50	370	45.77N	60.08W	-57.		• 054		10/12/77	0423	3:15	410	49.24N	27.29W	-57.	.000	.129	.00
10/12/77	0203	0:55	370	46.04N	59.08W	-56.		•068		10/12/77	0433	3:25	410	49.47N	25.05W	-57.	.000	•135	.00
10/12/77	0208	1:00	370	46.30N	58.06W	-57.		• 098		10/12/77	0443	3:35	410	49.67N	22.74W	-56.	.000	•158	.00
10/12/77	0218	1:10	370	46.80N	56.02W	-58.	.016	•091		10/12/77	0453	3:45	410	49.82N	20.41₩	-56.	.000	•154	.00
10/12/77	9228	1:20	410	47.27N	53.88W	-57.		•135		10/12/77	0458	3:50	410	49.88N	19.2.7W	-55.	.004	•121	.03
10/12/77	0238	1:30	410	47.68N	51.72W	-55.		•135		10/12/77	0503	3:55	410	49.92N	18.14W	-56.	.006	•119	.05
10/12/77	0248	1:40	410	48.05N	49.47W	-54.		• 226		10/12/77	0508	4:00	410	49.96N	17.00W	-57.	.000	.149	.00
10/12/77	0253	1:45	410	48.19N	48.32W	-53.	.000	•179	•00	10/12/77	0513	4:05	410	49.98N	15.86W	-57.	.000	.127	• 0.0
10/12/77	0258	1:50	410	48.33N	47.17W	-52.		•145		10/12/77	0523	4:15	410	49.99N	13.52W	-56.		•111	
10/12/77	0303	1:55	410	48.46N	45.99W	-52.		•129		10/12/77	0543	4:35	410	49.86N	9.01W	-58.	.000	•113	.00
10/12/77	0313	2:05	410	48.68N	43.61W	-51.	.000	•161	•00	10/12/77	0553	4:45	410	49.89N	6.72W	-61.	.012	-106	.11
10/12/77	0323	2:15	410	48.86N	41.26W	-52•	.000	•168	•00	10/12/77	0558	4:50	410	50.07N	5.59W	-61.	.000	• 257	.00
10/12/77	0333	2:25	410	48.98N	38.87W	-50.	.000	.205	•00	10/12/77	0603	4:55	410	50.29N	4.43W	-64.	.034	•139	.24
10/12/77	0343	2:35	410	49.03N	36.49W	-52.	.004	•185	.02	10/12/77	0608	5:00	398	50.50N	3.31W	-62.	.000	•093	



LHR TO JFK (PAGE 1 OF 1) DEPARTURE: 12.0CT 77 AIRCRAFT:PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE= .429 CABIN OZONE= .097 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .58 TOTAL OBS IN CABIN: 48 DATA SOURCE: GASP TAPE VL014, FILE 1

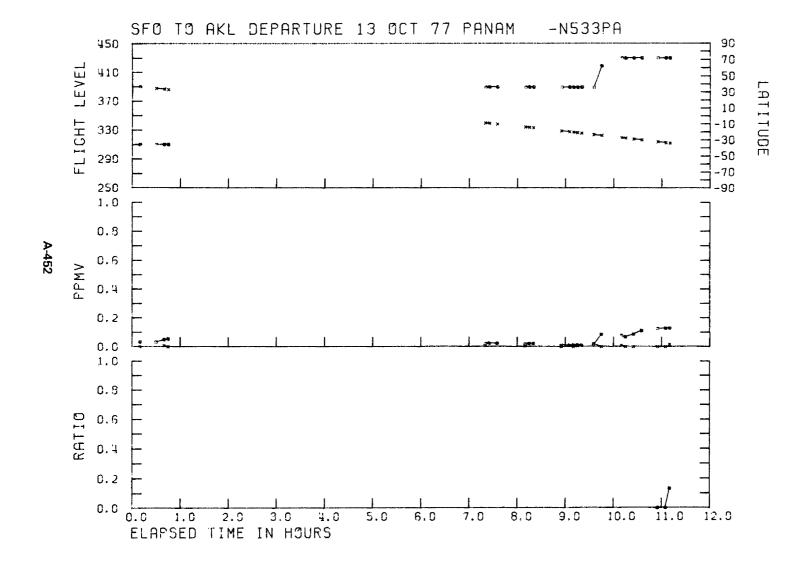
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
10/12/77	1330	0:10	367	53.03N	2.40W	-53.	.000	•134	•00	10/12/77	1650	3:30	390	54.82N	46.46W	-49.	.030	•429	.07
10/12/77	_			53.80N	4.11W		.000	.118	.00	10/12/77	1700	3:40	390	54.35N	48.55W	-52.	.022	.382	.06
10/12/77	1350	0:30	390	54.53N	5.96W	-51.	.000	•113	•00	10/12/77	1705	3:45	390	54.11N	49.55W	-51.	.029	.289	.10
10/12/77	1400	0:40	390	55.23N	7.80W	-50.	.000	•154	•00	10/12/77	1710	3:50	390	53.82N	50.48₩	-54.	.017	.245	.07
10/12/77	1405	0:45	390	55.57N	8.74W	-52.	.012	•195	•06	10/12/77	1715	3:55	390	53.49N	51.35W	~51.	.013	.167	.08
10/12/77	1410	0:50	390	55.90N	9.70W	-52.	.009	•205	• 0 4	10/12/77	1721	4:01	390	53.14N	52.22W	-54.		• 257	
10/12/77	1415	0:55	390	56.10N	10.73W	<b>~51</b> •	.021	.551	•10	10/12/77	1730	4:10	390	52.50N	53.76W	-60.	.010	.183	.05
10/12/77	1430	1:10	390	56.50N	14.01W	-50.	.007	•147	• 05	10/12/77	1750	4:30	430	51.39N	56.87W	-59.	.004	•185	.02
10/12/77	1440	1:20	390	56.72N	16.22W	-51.	.000	•124	•00	10/12/77	1800			51.09N	58.56W	-58.	.048	•195	• 25
10/12/77	1450	1:30	390	56.90N	18.42W	~50.	.013	•142	•09	10/12/77	1805	4:45	430	50.93N	59.38W	~59.	.008	•139	.06
10/12/77		1:40	390	57.02N	20.65W	<b>~50</b> •	.011	•162	• 07	10/72/77				50.77N	60,19W	-61.	.024	-158	.15
10/12/77	1505	1:45	390	57.06N	21.82W	~50.	.097	•167	•58	10/12/77	1820	5:00	430	50.44N	61.77W	<del>-</del> 58.	.022	·198	.11
10/12/77		1:50	390	57.08N	22.99W	~50.	.010	-164	•06	10/12/77	1830	5:10	430	50.10N	63.29W	-58.	.024	.204	.12
10/12/77		1:55	390	57.10N	24.17W	-51.		• 152		10/12/77				49.61N	64.71W	<b>-57.</b>	.004	.203	.02
10/12/77				57.10N	25.36W			•155	•15	10/12/77				48.00N	66.69W		.001	•163	.01
10/12/77		. 141		57.07N	27.75W		.021	•148	•14	10/12/77				47.60N	67.16W		•014	•157	• 09
10/12/77		2:20	390	56.99N	30.17W	-	.000	•162	• 0 0	10/12/77				47.18N	67.60W	_	.017	•172	.10
10/12/77				56.82N	32.58W			-148	•06	10/12/77				46.74N	67.98W		.000	•170	.00
10/12/77				56.61N	34.99₩		.019	•151	•13	10/12/77				46.28N	68.37W	-	.005	•169	.03
10/12/77				56.48N	36.21W		.009	•158	•06	10/12/77				45.38N	69.12W		.005	.179	.03
10/12/77				56.34N	37.41W		.006	•167	• 0 4	10/12/77				44.48N	69.83W		-	•161	.06
10/12/77				56.19N	38.59W		.015	•284	• 05	10/12/77				43.58N	70.52W			.110	• 0 4
\$10/12/77			-	56.03N	39.76W	-	.028	•370	•08	10/12/77				42.68N	71.19W		.001	.071	
\$10/12/77				55.67N	42.05W		.072	• 394	•18	10/12/77				42.23N	71.52W	_		•076	
10/12/77	1640	3:50	390	55.27N	44.28W	-49.	075	•377	•20	10/12/77	2010	6:50	263	41.78N	71.81W	-29.	.002	• 056	



JFK TO SFO (PAGE 1 OF 1) DEPARTURE: 12 OCT 77 AIRCRAFT:PANAM -N533PA

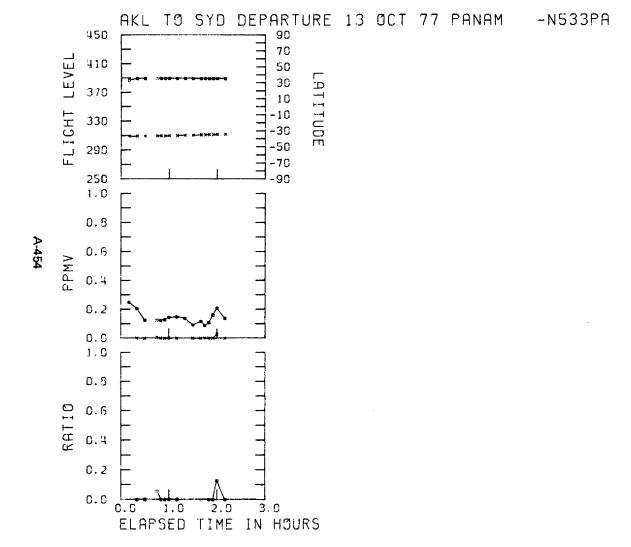
MAXIMUM VALUES: AMBIENT OZONE= .326 CABIN OZONE= .047 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .19 TOTAL OBS IN CABIN: 24 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL HR:MN	. LAT	LONG TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/nA/YR	GMT	EȚ⊉M HR:MN	FL	lá A T	LONG		OZONE (		RATIO
10/12/77 2322 10/12/77 2332 10/12/77 2342 10/12/77 2352 10/12/77 2357 10/13/77 0002 10/13/77 0007 10/13/77 0012 10/13/77 0022 10/13/77 0032 10/13/77 0042 10/13/77 0052	0:10 271 0:20 390 0:30 390 0:40 391 0:45 390 0:50 390 0:55 390 1:00 391 1:10 391 1:20 391 1:30 390	40.74N 41.00N 41.17N 41.25N 41.30N 41.36N 41.41N 41.49N 41.54N 41.56N	75.88W -32. 77.30W -56. 78.73W -55. 80.24W -53. 81.04W -54. 81.87W -53. 82.71W -52. 83.57W -53. 85.35W -56. 87.17W -56. 88.99W -59. 90.78W -61.	.125 .168 .326 .317 .002 .305 .307 .000 .196 .018 .320 .012 .182 .000 .152	•01 •00 •06 •07 •00	10/13/77 (10/13/	0142 0152 0157 0202 0207 0212 0222 0232 0252	2:30 2:40 2:45 2:50 2:55 3:00 3:10 3:20 3:40 3:45	390 4 390 4 390 4 390 4 390 4 390 4 390 4 390 3	0.94N 0.85N 0.75N 0.64N 0.53N 0.28N 0.02N 19.41N	98.03W, 99.75W 101.49W 103.22W, 104.09W 104.94W 106.64W 111.60W 111.60W 113.21W	-64. -63. -62. -62. -62. -63. -62. -61.		.046 .052 .049 .055 .105 .050 .051 .066 .061 .108	.12
10/13/77 0057 10/13/77 0102 10/13/77 0107 10/13/77 0112 10/13/77 0122	1:45 390 1:50 390 1:55 390 2:00 390 2:10 390	41.52N 41.49N 41.46N	91.70W =60. 92.62W =60. 93.55W =62. 94.47W =63. 96.24W =64.	.010 .122 .023 .124 .015 .079 .005 .070	.08 .19	10/13/77 ( 10/13/77 ( 10/13/77 ( 10/13/77 ( 10/13/77 (	0307 0312 0322 0332	3:55 : 4:00 : 4:10 : 4:20 :	390 3 390 3 390 3	38.91N 38.73N 38.39N 38.11N	114.02W 114.81W 116.41W 118.03W 119.66W	-60. -59. -58. -58.	.000 .005 .013 .001	.099 .115 .135 .099	.04



MAXIMUM VALUES: AMBIENT OZONE= .129 CABIN OZONE= .023 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .13 TOTAL OBS IN CABIN: 16 DATA SOURCE: GASP TAPE VL014, FILE 1

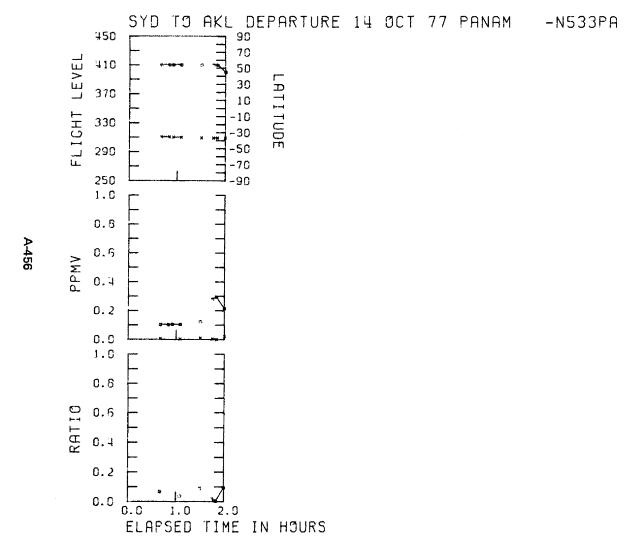
MO/DA/YR GMT	ETIM FL HP:MN	LAT	LONG TEMP (C)		PPMV) RATIO AMB.	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT			OZONE (PP	MV)	RATIO
10/13/77 0647 10/13/77 0707 10/13/77 0717 10/13/77 0722 10/13/77 1401 10/13/77 1416 10/13/77 1451 10/13/77 1456 10/13/77 1501 10/13/77 1536 10/13/77 1546	0:30 310 0:40 310 0:45 310 7:24 390 7:29 390 7:39 390 8:14 390 8:19 390 8:24 390 8:59 390	34.21N 33.14N 32.60N 8.91S 9.41S 0 10.40S 0 13.79S 0 14.26S	124.65W -43. 126.77W -43. 127.82W -43. 128.34W -43. 165.26W -55. 166.72W -56. 170.63W -55. 171.01W -55. 173.62W -53.	.008 .000 .006	.034 .033 .050 .055 .023 .024 .023 .020 .022 .023 .012	10/13/77 10/13/77 10/13/77 10/13/77 10/13/77 10/13/77 10/13/77 10/13/77 10/13/77 10/13/77 10/13/77	1556 1601 1616 1626 1651 1656 1706 1715 1736	9:19 9:24 9:39 9:49 10:14 10:19 10:29 10:39 10:59	390 390 390 419 430 430 430 430	20.985 21.53S 23.27S 24.40S 27.20S 27.76S 28.86S 29.97S 32.20S 33.31S	178.94W 179.61W 179.69E 178.24E 177.49E	-54. -53. -60. -59. -59. -55. -51.	.006 .023 .000 .010 .000 .000	012 012 011 011 084 077 068 086 111 125 127	.00 .00 .13



AKL TO SYD (PAGE 1 OF 1) DEPARTURE: 13 OCT 77 AIRCRAFT:PANAM -N533PA

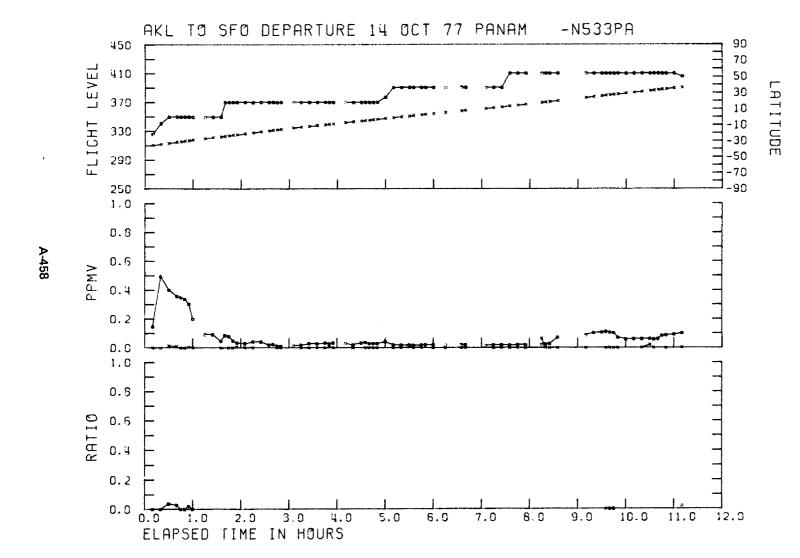
MAXIMUM VALUES: AMBIENT OZONE= .248 CABIN OZONE= .026 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .13 TOTAL OBS IN CABIN: 14
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN		LAT	LONG		OZONE (			MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ()		RATIO
10/13/77	2045	0:10	387	36.915	172.47E	-48.		-248		10/13/77	2155	1:20	389	35.658	161.07E	<b>-59</b> .		.137	
10/13/77	2055	0:20	389	36.795	170.79E	-49.	.000	-204	•00	10/13/77	2205	1:30	389	35.385	159.54E	-58.	.000	.092	
10/13/77	2105	0:30	389	36.658	169.11E	-50.	.000	•124	•00	10/13/77	2215	1:40	389	35.115	158.03E	-58.	.000	.116	.00
10/13/77	2120	0:45	389	36,415	166.64E	-52•	.007	•125	•06	10/13/77	2220	1:45	389	34.975	157.27€	-59.	.000	.087	
10/13/77	2125	0:50	389	36.325	165.82E	-52•	.000	•122	• 0 0	10/13/77	2225	1:50	389	34.825	156.51E	-59.	.000	·108	• <del>0</del> 0
10/13/77	2130	0:55	389	36,235	165.01E	-54.	.000	•129	•00	10/13/77	2230	1:55	389	34.665	155.76E	-58.	.000	•160	.00
10/13/77	2135	1:00	389	36,135	164.24E	-56.	.000	•144	•00	10/13/77	2235	2:00	389	34.515	155.02E	-59.	.026	-207	.13
10/13/77	2145	1:10	389	<b>35.90</b> S	162.65E	-57.	.000	-148	•00	10/13/77	2245	2:10	389	34.255	153.56E	-56.	.000	.138	.00



MAXIMUM VALUES: AMBIENT OZONE= .294 CABIN OZONE= .020 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .09 TOTAL OBS IN CABIN: 6
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP (C)	OZONE (PPMV) CABIN AMB.	 MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
10/14/77 0529 10/14/77 0539 10/14/77 0544 10/14/77 0554	0:40 410 35.30S 0:50 410 35.60S 0:55 410 35.73S 1:05 410 35.99S	160.80E -58. 161.68E -56.	•102 •105	10/14/77 0634 1:45 410 36.7 10/14/77 0639 1:50 410 36.7	9S 167.54E -54011 .123 .09 IS 170.01E -52005 .280 .02 3S 170.87E -51001 .294 .00 5S 172.57E -49020 .214 .09



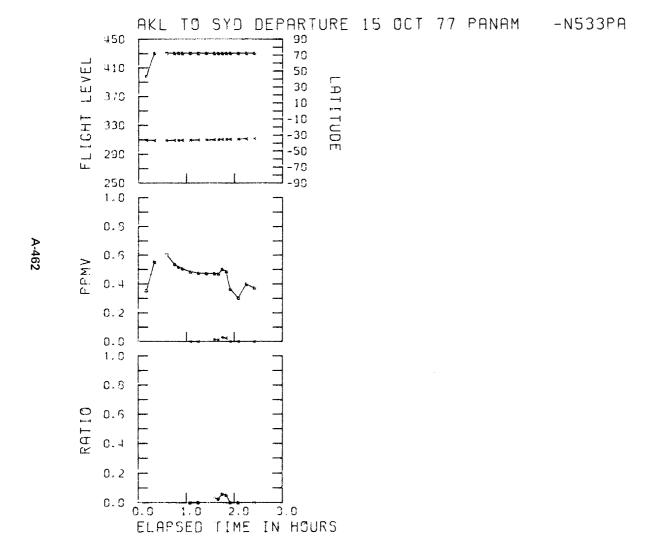
MAXIMUM VALUES: AMBIENT OZONE= .492 CABIN OZONE= .063 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .04 TOTAL OBS IN CABIN: 55 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RATIO
10/14/77	1056	0:10	326	35.245	176.12E	-50-	.000	•146	•00	10/14/77	1556	5:10	391	1.065	157.78W	~55.	.000	.019	
10/14/77				33.995	177.00E		.000	•492	•00	10/14/77		5:20		.065	156.83W		.000	.018	
10/14/77	1116			32.735	177.88E	-45.	.015	.402	• 0 4	10/14/77	1616	5:30	391	.91N	155.91W		.007	.019	
10/14/77	1126	0:40	350	31.465	178.73E	-42.	.010	•357	•03	10/14/77	1621	5:35	391	1.41N	155.43W	-55.	.000	.017	
10/14/77	1131	0:45	350	30.835	179.14E	-43.	.000	.349	•00	10/14/77		5:45	390	2,41N	154.49W		.000	.018	
10/14/77	1136	0:50	350	30.205	179.55E	-43.	.000	•337	-00	10/14/77	1636	5:50	390	2.91N	154.02W	-54.		.020	
10/14/77	1141	0:55	350	29.565	179.95E	-42.	.006	•303	•02	10/14/77	1646	6:00	390	3.91N	153.07W	₹54.	.000	.021	
10/14/77	1146	1:00	350	28.925	179.66W	-42.	.000	•200	•00	10/14/77	1701	6:15	390	5.39N	151.66W	-55.	.000	.019	
10/14/77		1:15	350	27.045	178.51W	-44.		•092		10/14/77	1721	6:35	391	7.32N	149.81W	~56.	.000	.020	
10/14/77				25.825	177.80W			•090		10/14/77		6:40	_	7.80N	149.35W		.000	.021	
10/14/77				24.635	177.11W		.000	• 045		10/14/77				10.22N	147.01W			•015	
10/14/77	_			24.045	176.78W			•084		10/14/77				11.19N	146.02W		•000	•019	
10/14/77	-	_		23.415	176.43W		.000	•078		10/14/77				12.16N	145.05W		.000	-019	
10/14/77		_		22.805	176.10W		.000	-047		10/14/77				13.32N	144.17W		•000	.018	
10/14/77				22.195	175.76W		.006	•034		10/14/77				14.41N	143.36W		.000	.021	
10/14/77				20.955	175.05W		.001	•030		10/14/77				15.51N	142.53W		•000	•021	
10/14/77		-		19.715	174.21W		.000	•042		10/14/77		*****		17.70N	140.82W		•063	•023	
10/14/77				18.495	173.40W			•041		10/14/77				18.26N	140.39W		.000	•025	
10/14/77				17.245	172.57W			•019		10/14/77				18.80N	139.96W		.000	•028	
10/14/77				16.625	172.16W			•023		10/14/77				19.91N	139.07W		.000	•070	
10/14/77				15.995	171.76W		.000	•012		10/14/77				23.89N	135.97₩		.000	•086	
10/14/77				15.375	171.37W		.000	•011		10/14/77				25.00N	135.07%			•102	
£10/14/77			. "	13.725	170.07W	-	000	•015		10/14/77	7 .			26.08N	134.17W		000	•106	• •
第10/14/77 10/14/77				12.70S 11.69S	169.03W		.000	•018 •029		10/14/77 10/14/77				26.61N 27.14N	133.73W 133.27W		.000	•110 •105	• 0.0 • 0.0
10/14/77				10.665	168.01W 166.98W		.002	•029		10/14/77				27.14N	132.80W		•000	•105	.00
10/14/77		3:45			166.00W		.000	•033		10/14/77				28.21N	132.35W		.000	.069	• 00
10/14/77		3:50			165.51W		.008	-027		10/14/77				29.26N	131.41W		•000	.057	
10/14/77		3:55			165.02W		.000	•033		10/14/77				30.32N	130.45W			.060	
10/14/77		4:10			163.56W		••••	•030		10/14/77		_		31.40N	129.47W		.002	.060	
10/14/77		4:20			162.60W	-	.000	•019		10/14/77				32.46N	128.47W			.061	
10/14/77	-	4:30			161.64W		••••	•033		10/14/77		-		32.99N	127.97W		.001	.05A	
10/14/77	_	4:35			161.16W		.000	•037		10/14/77		_		33.51N	127.46W		• • • •	.061	
10/14/77		4:40			160.68W		.000	•029		10/14/77		-		34.02N	126.96W			•083	
10/14/77		4:45			160.19W		.000	•029		10/14/77		-		34.61N	126.37W			•086	
10/14/77		4:50			159.71W		.000	•029		10/14/77				35.62N	125.32W			.091	
10/14/77		5:00			158.74W			•041		10/14/77				36.46N	124.06W	-58.	.002	.100	

LATITUDE

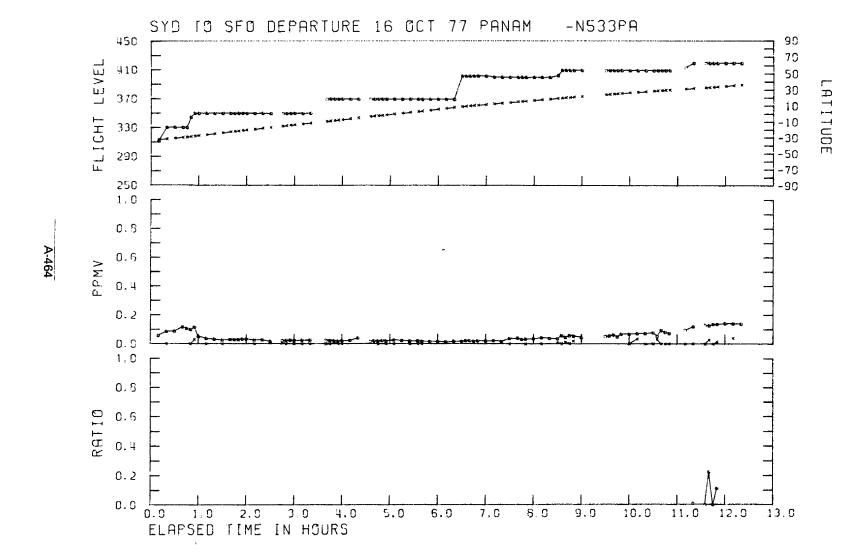
MAXIMUM VALUES: AMBIENT OZONE= .151 CABIN OZONE= .034 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .25 TOTAL OBS IN CABIN: 39
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM	FI	LAT	LONG	TEMP	OZONE (	(PPMV)	RATIO	MO/DA/YR	GMT	ETIM	Fl	I AT	LONG	TEMP	OZONE (	PPMV1	RATIO
110704711	0,,,	HR: MN		LAI	LONG	(C)	CABIN	AMB.	NA 1 1 0		<b>O</b> ///	HR: MN		C n i		(C)	CABIN	AMB.	
10/15/77	1000	0:10	313	36.22N	124.64W	-45.		•034		10/15/77	1519	5:29	370	2.66N	154.26W	-49.		.018	
10/15/77	1010			35.21N	125.75W	-51.		•066		10/15/77	1530	5:40	370	1.66N	155.19W	-48.	.026	.021	
10/15/77	1020			34.16N	126.82W			•072		10/15/77	1539	5:49	390	.69N	156.12W	-54.		.024	
10/15/77	1030	0:40	340	33.09N	127.87W	-48.		.067		10/15/77	1555	6:05	390	.775	157.50W	-54.		.021	
10/15/77	1035	0:45	340	32.57N	128.37W	-48.	.000	•063		10/15/77	1605	6:15	390	1.755	158.43W	-54.		.020	
10/15/77	1040	0:50	340	32.03N	128.88W	-49.		•067		10/15/77	1620	6:30	390	3.205	159.81W	-55.	.000	.026	
10/15/77	1045	0:55	340	31.50N	129.38W			-064		10/15/77	1634	6:44	390	4.645	161.18W	-54.	.000	.020	
10/15/77	1050	1:00	340	30.95N	129.88W	-48.	.006	•060		10/15/77	1644	6:54	390	5.625	162.11W	-55.	.034	.042	
10/15/77	1055	1:05	340	30.41N	130.37W	-49.	.019	•059		10/15/77	1654	7:04	390	6.515	163.09W	-55.		•035	
10/15/77	1105	1:15	340	29.33N	131.34W	-48.		•071		10/15/77	1659	7:09	390	6.955	163.59W	-55.		.034	
10/15/77	1115	1:25	340	28.26N	132.30W	-47.		•063		10/15/77	1704	7:14	390	7.435	164.06W	-55.	.000	•028	
10/15/77	1140	1:50	350	25.57N	134.59W	-47.		•075		10/15/77	1709	7:19	390	7.935	164.49W	-55.	.000	.034	
10/15/77	1145	1:55	350	25.02N	135.05W	-46.	.000	•Ó70		10/15/77	1719	7:29	390	8,975	165.32W	-55.		•018	
10/15/77	1150	2:00	350	24.48N	135.49W	-47.		•039		10/15/77	1729	7:39	390	9.925	166.25W	-55.		.021	
10/15/77	1155	2:05	350	23.93N	135.94W	-46.		•074		10/75/77	1734	7:44	390	10.395	166.71W	-55.		.019	
10/15/77	1200	2:10	350	23.38N	136.38W	-46.		•075		10/15/77	1744	7:54	390	11.315	167.63₩	-55.		.019	
10/15/77	1210	2:20	350	22.28N	137.25W	-46.	.000	•067		10/15/77		8:04	390	12.245	168.56W	-56.	.000	•023	
10/15/77		2:30	350	21.17N	138.11W	-46.	.000	•065		10/15/77	1759	8:09	390	12.705	169.03W	-56.	.000	.015	
10/15/77	1230	2:40	350	20.09N	138.93W	-46.	.000	•027		10/15/77	1805	8:15	390	13.185	169.52W	-56.		.020	
10/15/77		2:50	350	19.94N	139.04W	-46.	.000	•020		10/15/77	1810	8:20	390	13.655	169.99W	-56.	.000	•018	
10/15/77		2:55	350	19.94N	139.04W	-45•		•020		10/15/77	1825	8:35	390	15.185	171.24W	-56.		•043	
10/15/77		3:00	350	18.01N	140.59W	-45.		•022		10/15/77	1834	8:44	390	16.295	171.95W	-55.	.000	•032	
\$10/15/77				17.48N	141.00W			•019		10/15/77				17.425	172.68W		.026	•103	.25
210/15/77				16.95N	141.42W			.021		10/15/77		9:04	410	18.525	173.41W	-57.	.000	•119	• 0 0
10/15/77				15.85N	142.26W	-45.		•019		10/15/77				19.075	173.78W	-57.		•151	
10/15/77	_		_	14.76N	143.10W			•019		10/15/77				19.625	174.15W		.000	•103	.00
10/15/77	1330			13.66N	143.93W	-44.	.000	•019		10/15/77		9:20	410	20.165	174.52W			•130	
10/15/77				12.54N	144.76W		.000	•020		10/15/77				21.765	175.53W		.005	•130	.04
10/15/77				11.54N	145.67W			•018		10/15/77				23.995	176.75W			•117	
10/15/77	-			11.06N	146.15W			•019		10/15/77		-		25.635	177.69W		.002	•115	.02
10/15/77		4:09	370	10.58N	146.63W		.000	•021		10/15/77				26.165	178.00W		.002	•114	.02
10/15/77		4:19	370	9.63N	147.57W			•018		10/15/77	2009			26.695	178.30W		.001	•111	.01
10/15/77	-	4:30	-	8.66N	148.51W		.002	•018		10/15/77		-		27.745	178.93W			•112	
10/15/77		4:40		7.67N	149.47W		.010	•018		10/15/77				28.815	179.59W			•108	
10/15/77		4:45		7.18N	149.95W			•019		10/15/77				29.355	179.92W		.000	•105	• 0 0
10/15/77		4:50		6.66N	150.44W			•017		10/15/77				29.935	179.71E		•000	•105	•00
10/15/77		4:59		5.68N	151.39W		.000	•019		10/15/77		-		31.485	178.71E		.005	•113	• 04
10/15/77		5:04		5.17N	151.87W		.000	•016		10/15/77				32.035	178.35E		.000	•109	.00
10/15/77		5:10		4.67N	152.35W			•020		10/15/77				32.595	177.98E			•109	
10/15/77	1505	5:15	370	4.16N	152.83W	-49.	.000	•017		10/15/77				33.145	177.60E		.010	•110	.09
										10/15/77	2124	11:34	410	34.785	176.46E	-50.	.009	•133	.07



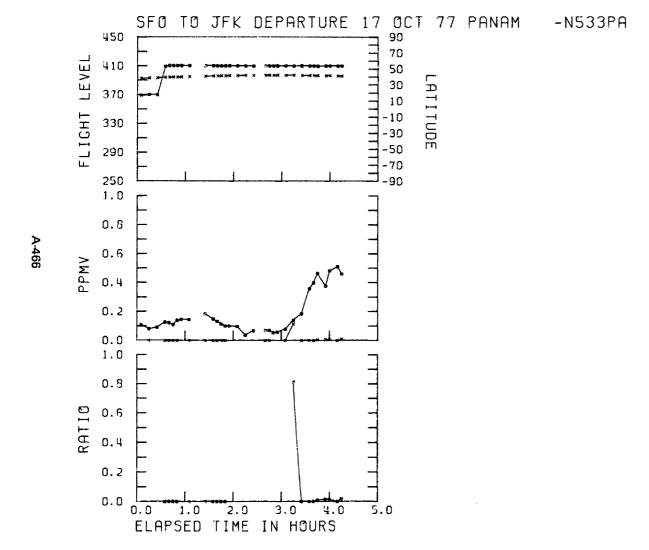
MAXIMUM VALUES: AMBIENT OZONE= .604 CABIN OZONE= .029 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .06 TOTAL OBS IN CABIN: 9
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PF (C) CABIN A		MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZONE (PPMV) RATIO CABIN AMB.
10/15/77 2345 10/15/77 2355 10/16/77 0010 10/16/77 0020 10/16/77 0025 10/16/77 0030 10/16/77 0040 10/16/77 0050	0:20 430 36.80S 0:35 430 36.65S 0:45 430 36.53S 0:50 430 36.46S	171.78E -54. 169.55E -52. 168.06E -54. 167.34E -53. 166.61E -54. 165.14E -56000	•353 •550 •604 •536 •517 •506 •484 •475	10/16/77 0100 10/16/77 0110 10/16/77 0115 10/16/77 0120 10/16/77 0125 10/16/77 0130 10/16/77 0140 10/16/77 0150	1:35 430 35.64S 1:40 430 35.53S 1:45 430 35.41S 1:50 430 35.29S 1:55 430 35.18S 2:05 430 34.94S 2:15 430 34.69S	160.95E -55. 160.25E -54. 159.55E -54. 158.87E -56. 158.22E -57. 156.93E -58. 155.68E -56.	.015 .472 .03 .011 .469 .02 .029 .502 .06 .024 .485 .05 .000 .363 .00 .000 .302 .00



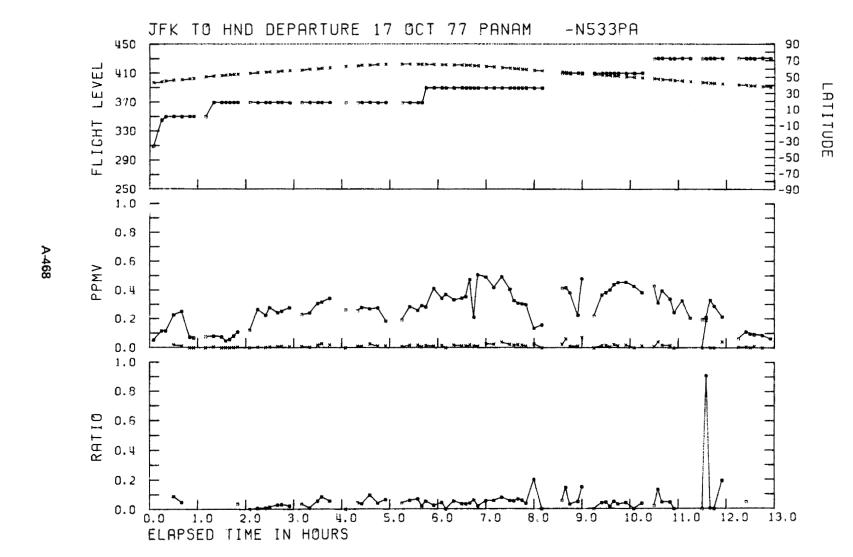
MAXIMUM VALUES: AMBIENT OZONE= .141 CABIN OZONE= .040 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .79 TOTAL OBS IN CABIN: 47 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	Ligng		OZONE (	PPMV)	RATIO
10/16/77	0848	0:10	311	32.935	153.79E	-49.		• 058		10/16/77	1448	6:10	370	6.39N	169.16W	-48.		.013	
10/16/77				32.045	155.25E		.000	•086		10/16/77	,	6:20		7.59N	168.52W			.017	
10/16/77		0:30	331	31.125	156.66E			.087		10/16/77	1508	6:30	402	8.64N	167.65W	-58.		.017	
10/16/77		0:40	330	30.185	158.06E	-44.		-117		10/16/77		6:35	402	9.09N	167.13W	-58.		•022	
10/16/77	0923	0:45	330	29.645	158.70E	-42•		•106		10/16/77	1518	6:40	402	9.52N	166.61W	-58.		.021	
10/16/77	0928	0:50	344	29.085	159.31E	-44.	.000	•098		10/16/77	1523	6:45		9.95N	166.10W			.018	
10/16/77	0933	0:55	350	28.495	159.93E	-45.	.031	•114	•27	10/16/77				10.38N	165.58W			•020	
10/16/77	_			27.905	160.55E			• 050		10/16/77	1538		-	11.25N	164.53W			•019	
10/16/77				26.715	161.76E		.000	•037		10/16/77				12.11N	163.48W			•022	
10/16/77		-		25.505	162.96E			•033		10/16/77				12.98N	162.41W			•016	
10/16/77				24.315	164.10E		.000	•026		10/16/77				13.86N	161.31W		.000	•037	
10/16/77				23.095	165.23E			•029		10/16/77				14.74N	160.20W			•039	
10/16/77			_	22.515	165.76E		.027	•029		10/16/77				15.18N 15.61N	159.63W 159.07W		.000	•031	
10/16/77 10/16/77		_		21.935	166.30E		.021	•030 •032		10/16/77 10/16/77				16.48N	157.95W		•000	•033 •034	
10/16/77				20.825	167.47E			•032		10/16/77				17.35N	156.79W		.000	•042	
10/16/77				19.735	168.61E		.000	•026		10/16/77				18.22N	155.63W		•000	•038	
10/16/77				18.635	169.73E		•000	•027		10/16/77				19.08N	154.45W		.009	•035	
10/16/77				17.525	170.83E		.005	•017		10/16/77				19.51N	153.84W	· ·	.000	•056	
10/16/77				15.885	172.44E		.005	•022		10/16/77	-			19.94N	153.23W		.012	•045	
10/16/77				15.345	172.95E		.000	•023		10/16/77		8:45	410	20.37N	152.63W		.002	.057	
10/16/77				14.795	173.47E			.025		10/16/77	1728	8:50	410	20.79N	152.02W	-60.	.019	• 054	
₹10/16/77	1138	3:00	350	14.255	173.99E	-43.	.000	•023		10/16/77	173B	9:00	410	21.63N	150.80W	-60.		• 045	
ន្លី10/16/77		3:10	350	13.165	175.00E	-43.	.000	•025		10/16/77	180B	9:30	410	24.04N	147.12W	-59.		•052	
10/16/77	1158	_	_	12.075	176.01E		.000	•025		10/16/77				24.43N	146.51W			• 055	
10/16/77	1218	3:40	370.	9.945	177.95E	-49.	.000	•025		10/16/77				24.81N	145.88W			•062	
10/16/77		3:45		9.405	178.42E		.000	•024		10/16/77				25.19N	145.26W			.049	
10/16/77		3:50		8.895	178.89E		.008	•020		10/16/77				25.57N	144.63W	_		•068	
10/16/77	_	3:55		8.345	179.36E		.000	•018		10/16/77		_		26.32N	143.37W		.000	•068	
10/16/77		4:00		7.785	179.80E		.000	-021		10/16/77		_		27.05N	142.09W		.034	•071	
10/16/77		4:10		6.655	179.30W			•023		10/16/77		_	_	27.77N 28.46N	140.82W		.000	•071	
10/16/77		4:20		5.535	178.42W			•040		10/16/77 10/16/77		_		28.81N	139.54W		.000	•077 •053	
10/16/77 10/16/77		4:35 4:40		3.86S 3.32S	177.12W 176.67W			•018 •020		10/16/77				29.15N	138.24W		.000	•093	
10/16/77		4:45		2.835	176.17W		.000	•020		10/16/77				29.49N	137.58W		.000	.080	
10/16/77		4:50		2.335	175.68W		• • • • •	•022		10/16/77		_		29.81N	136.94W		.000	•072	
10/16/77		4:55		1.845	175.19W		.000	•020		10/16/77		_		31.12N	134.25W		.000	•094	
10/16/77		5:05		.865	174.20W		.000	•026		10/16/77		-	- '	31.74N	132.89W		.001	.120	.01
10/16/77		5:15		•13N	173.26W			•022		10/16/77				32.66N	130.81W		.000	•130	.00
10/16/77		5:25		1.27N	172.52W		.000	•019		10/16/77				32.96N	130.10W		.028	•126	.22
10/16/77		5:35		2.41N	171.77W		.000	.020		10/16/77				33.34N	129.45W		.000	.136	.00
10/16/77		5:40		2.98N	171.40W		.000	.016		10/16/77		11:50	420	33.75N	128.81W		.015	•135	.11
10/16/77	-	5:50		4.11N	170.66W		-	.016		10/16/77	2038	12:00	420	34.55N	127.48W	-58.		•141	
10/16/77		6:00		5.25N	169.91W	-48.		-015		10/16/77	2048	12:10	420	35.38N	126.08W	-56.	.040	-140	.29
										10/16/77	2058	12:20	420	36.17N	124.63W	<del>-</del> 56•		•138	



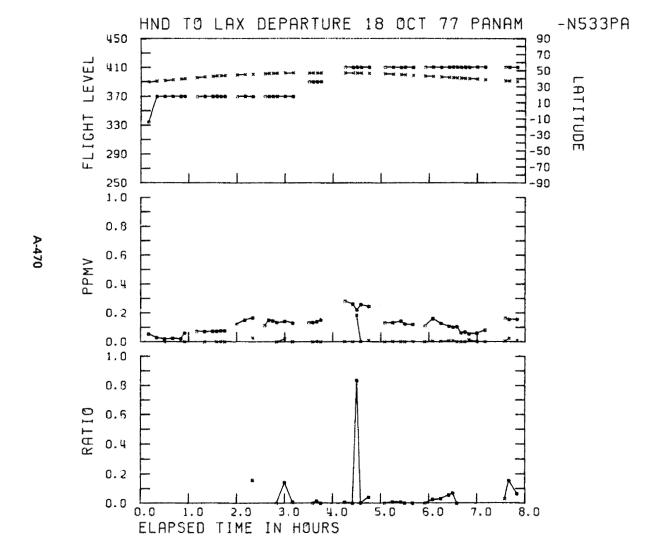
MAXIMUM VALUES: AMBIENT OZONE= .510 CABIN OZONE= .113 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .81 TOTAL OBS IN CABIN: 23 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TEM (C)	OZONE CABIN		RATIO	MO/na/YR	GMT	ETIM HR:MN	ŦL	LAT	LONG	TEMP	OZONE ( CABIN		RATIO
10/17/77 0136 10/17/37 0146 10/17/77 0156 10/17/77 0206 10/17/77 0211 10/17/77 0216 10/17/77 0221 10/17/77 0226 10/17/77 0236 10/17/77 0326 10/17/77 0311 10/17/77 0321 10/17/77 0326 10/17/77 0326 10/17/77 0326 10/17/77 0326	0:09 369 0:19 370 0:29 370 0:39 410 0:44 410 0:54 410 0:59 410 1:09 410 1:29 410 1:39 410 1:44 410 1:44 410 1:54 410 1:54 410	38.65N 39.06N 39.44N 39.63N 39.80N 39.97N 40.14N 41.01N 41.26N 41.26N 41.37N 41.48N 41.57N 41.66N	120.06W -54 118.36W -54 116.72W -51 115.10W -57 115.10W -61 112.61W -61 111.77W -60 110.10W -61 106.63W -58 104.78W -60 103.86W -62 102.93W -60 102.01W -62 101.10W -60 99.27W -59	.000	.091 .126 .122 .109 .138 .145 .143 .182 .148	.00 .00 .00 .00	10/17/77 10/17/77 10/17/77 10/17/77 10/17/77 10/17/77 10/17/77 10/17/77 10/17/77 10/17/77 10/17/77 10/17/77 10/17/77	0356 0411 0416 0421 0426 0436 0446 0506 0511 0516 0522 0527 0537	2:29 2:44 2:54 2:59 3:19 3:29 3:34 3:49 3:55 4:00 4:10	410 410 410 410 410 410 410 410 410 410	41.95N 42.05N 42.16N 42.16N 42.17N 42.14N 42.10N 42.02N 41.92N 41.78N 41.78N 41.62N 41.62N 41.21N	97.39W 95.54W 92.75W 91.81W 90.88W 89.95W 86.40W 84.58W 82.80W 81.90W 81.00W 87.16W 77.35W 75.61W	-50. -59. -58. -57. -58. -57. -54. -52. -51. -48. -47. -46.	.000	.037 .067 .070 .069 .056 .078 .139 .184 .358 .398 .463 .375 .481	.81 .00 .00 .01 .02



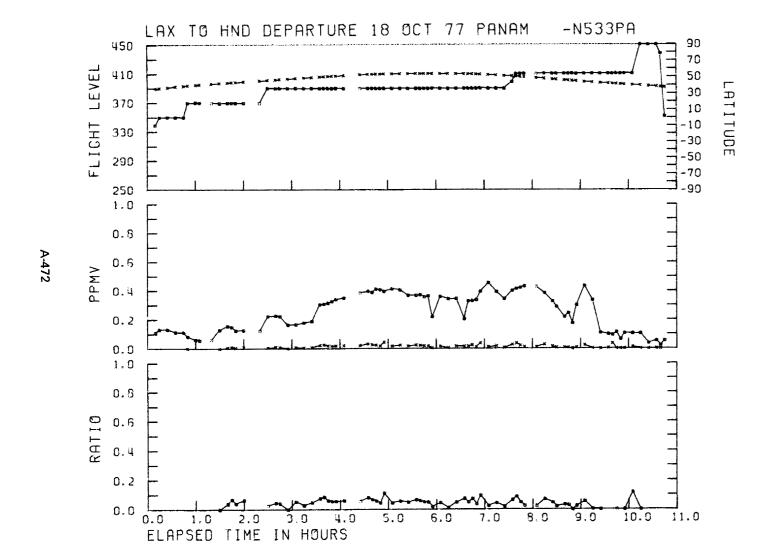
MAXIMUM VALUES: AMBIENT OZONE= .506 CABIN OZONE≃ .189 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .91 TOTAL OBS IN CABIN: 82 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMR.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (	PPMV) AMB.	RATIO
10/17/77	1749	0:05	309	41.97N	75.21W	-48.		•053		10/18/77	0033	6:49	390	63.62N	161.91W	-44.	.013	.210	.06
10/17/77				43.15N	75.75W			•115		10/18/77	0038	6:54	390	63.30N	163.20W	-44.	.010	•506	.02
10/17/77	1808	0:24	350	44.22N	76.62W	-57.		•114		10/18/77	0048	7:04	390	62.63N	165.78W		.027	.490	.06
10/17/77				45.27N	77.69W	_	.020	•226	•09	10/18/77	_		_	61.92N	168.23W		.024	•418	.06
10/17/77	-			45.78N	78.23W		.012	•249	• 05	10/18/77				61.18N	170.52W		.039	•492	.08
10/17/77				46.81N	79.35W		.000	•072		10/18/77			_	60.44N	172.75W		.023	•405	.06
10/17/77				47.33N	79.93W		.000	•067		10/18/77		14.45		60.05N	173.81W	The Control of the Co	.018	•326	.06
10/1 <b>7</b> /77 10/17/77		_		49.39N 50.25N	82.42W 84.00W		.000 .006	•076 •079		10/18/77 10/18/77				59.67N 59.28N	174.83W 175.82W		.021 .018	•309	.07
10/17/77				51.09N	85.69W		.000	•074		10/18/77				58.88N	176.80W		.011	•304 •298	.06 .04
10/17/77	_	_		51.51N	86.56W		.000	•048		10/18/77				58.06N	178.69W		.027	135	.20
10/17/77	_	-		51.92N	87.46W		.000	•057		10/18/77				57.29N	179.43E		.000	.157	.00
10/17/77				52.32N	88.37W		.000	•080		10/18/77				56.03N	175.37E		.024	•413	.06
10/17/77	1938	1:54	370	52.73N	89.30W	-47.	.004	•108	•04	10/18/77	0228	8:44	411	95.36N	173.48E	-49.	.061	.416	.15
10/17/77	1953	5:09	370	53.88N	92.19W	-47.	.000	.120	•00	10/18/77	0233	8:49	410	55.01N	172.53E	-49.	.012	.381	.03
10/17/77				54.60N	94.18W		.002	•264	•01	10/18/77				54.64N	171.58E		.011	•224	.05
10/17/77	_			55.28N	96.16W		.002	•223	•01	10/18/77	_			53.94N	169.A1E		.072	•478	.15
10/17/77			_	55.60N	97.17W		.004	•276	•01	10/18/77	_			52.99N	167.08E		•000	•220	.00
10/17/77				55.94N	98.19W		•007	•241	•03	10/18/77	4			52.32N	165.31E		.015	•366	.04
10/17/77				56.58N 57.25N	100.15W		.008 .006	•252 •276	•03 •02	10/18/77 10/18/77			_	51.97N 51.62N	164.44E 163.59E		.017	•382 •401	.04 .01
D10/17/77				57.94N	103.82W		.008	•279	•03	10/18/77			_	51.27N	162.77E		•022	•438	.05
£10/17/77				58.94N	106.65W		.002	•240	.01	10/18/77				50.92N	161.98E		.014	•452	.03
810/17/77				59.59N	108.59W		.017	•306	•06	10/18/77				50.22N	160.47E		.019	• 454	.04
10/17/77				60.04N	109.40W		.027	•316	•09	10/18/77				49.51N	159.03E		.000	.426	.00
10/17/77	2133	3:49	370	60.93N	111.10W	-46.	.019	.342	•06	10/18/77	0403	10:19	411	48.79N	157.66E	-51.	.014	•382	.04
10/17/77	2153	4:09	370	62.67N	115.14W		.000	•262	•00	10/18/77	0414			48.03N	156.28E	-51.	.009	•429	.02
10/17/77				63.35N	117.63W		.011	•256	• 0 4	10/18/77		-	_	47.29N	155.02E		.041	.310	.13
10/17/77				63.97N	120.17W		.010	•277	•04	10/18/77		-		46.90N	154.38E		.018	•395	.05
10/17/77				64.27N	121.52W		.026	•268	-10	10/18/77			-	46.51N	153.74E	-	.015	•337	.04
10/17/77				64.83N	124.28W		.011	•275	• 04	10/18/77		-	-	45.75N	152.56E		.000	•243	•00
10/17/77 10/17/77				65.33N	128.62W		.012	-184	•07	10/ <u>1</u> 8/77 10/18/77	_	-	_	44.99N 44.22N	151.41E 150.31E			•326	
10/17/77				65.41N 65.36N	134.86W 137.96W		.008	•193 •283	•04 •06	10/18/77				43.24N	148.65E		.000	.205	.00
10/17/77				65.31N	139.50W		.018	.258	.07	10/18/77				42.92N	148.09E		.189	-208	.91
10/17/77				65.18N	142.57W		.006	•291	.02	10/18/77				42.59N	147.54E		.001	.329	้อ้อ
10/17/77				65.09N	144.11W		.015	•281	• 05	10/18/77				42.27N	147.01E		.000	.287	.00
10/17/77				64.87N	147.16W		.010	•409	•02	10/18/77	_	_		41.65N	146.00E		.041	.213	.19
10/17/77	_			64.74N	149.88W		.015	.342	• 04	10/18/77	0603	12:19	430	40.40N	144.07E	~58.	.005	.063	
10/17/77				64.67N	151.41W		.000	•369	.00	10/18/77		12:29	430	39.76N	143.13E	-58.	.005	-110	.05
10/18/77	0008	6:24	390	64.48N	154.51W	-47.	.018	•332	• 05	10/18/77	0618	12:34	431	39.44N	142.67E	-58.	.001	.096	
10/18/77	0018	6:34	390	64.22N	157.61W	-46.	.012	• 343	•03	10/18/77	0623	12:39	430	39.13N	142.22E	-58.	•009	.091	
10/18/77	0023	6:39	390	64.07N	159.11W	-45.	.012	• 353	•03	10/18/77	0633			38.39N	141.44E		.000	•086	
10/18/77	0028	6:44	390	63.90N	160.58W	-45•	.019	•472	•04	10/18/77	0643	12:59	430	37.50N	140.98E	-59•		•062	



MAXIMUM VALUES: AMBIENT OZONE= .281 CABIN OZONE= .184 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .83 TOTAL OBS IN CABIN: 37 DATA SOURCE: GASP TAPE VL014. FILE 1

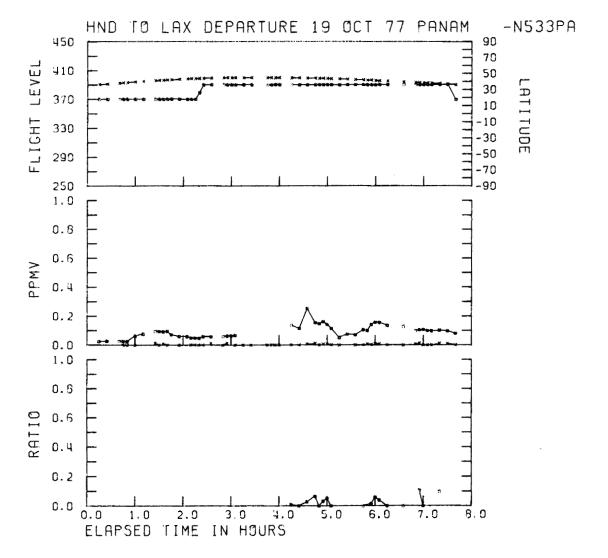
MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE	PPMV)	RATIO
		HR: MN				(C)	CABIN	AMB.				HR:MN				(C)	CABIN	AMB.	
10/18/77	1011	0:10	334	35.84N	143.04E	-38.		• 053		10/18/77	1346	3:45	390	47.07N	167.91W	-56.	.000	•151	.00
10/18/77	1021	0:20	370	36.76N	144.87E			•028		10/18/77	1415	4:15	410	47.04N	161.12W	-56.	.002	.281	.01
10/18/77	1031	0:30	370	37.65N	146.77E	-48.	.000	.020		10/18/77	1426	4:25	410	46.93N	158.88W	-56.	.000	.261	.00
10/18/77	1041	0:40	370	38.52N	148.72E	-48.		.024		10/18/77	1431	4:30	410	46.86N	157.78W	-55.	.184	.221	.83
10/18/77	1051	0:50	370	39.43N	150.78E	-48.		•020		10/18/77	1436	4:35	410	46.77N	156.66W	<b>-56.</b>	.000	•258	.00
10/18/77	1056	0:55	370	39.89N	151.80E	-49.	.000	.060		10/18/77	1446	4:45	410	46.55N	154.44W	-55.	.010	•245	.04
10/18/77	1111	1:10	370	41.22N	154.92E	-49.		• 07·1		10/18/77	1506	5:05	410	46.01N	150.09W	-55.	.000	•131	.00
10/18/77	1121	1:20	370	42.05N	157.04E	-49.	.000	.070		10/18/77	1516	5:15	410	45.50N	148.02W	-55.	.001	.132	.01
10/18/77	1131	1:30	370	42.85N	159.28E	-49.		•072		10/18/77	1526	5:25	410	44.94N	146.00W	-56.	.001	.143	.01
10/18/77	1136	1:35	370	43.22N	160.45E	-49.	.000	•072		10/18/77	1531	5:30	410	44.66N	145.04W	<del>-</del> 55.	.000	.122	.00
10/18/77	1141	1:40	370	43.52N	161.69E	-49.	.000	•075		10/18/77	1541	5:40	410	44.07N	143.13W	-56.	.000	•119	.00
10/18/77	1146	1:45	370	43.80N	162.88E	-50.	.000	•075		10/18/77	1556	5:55	410	43.15N	140.39W	-57.	.000	-110	.00
10/18/77	1201	2:00	370	44.56N	166.56E	-51.		•123		10/18/77	1606	6:05	410	42.66N	138.47W	-57.	.004	•160	.03
10/18/77	1211	5:10	370	44.98N	168.99E	-51.		•151		10/18/77	1616	6:15	410	42.14N	136.59W	-58.	.004	•127	.03
10/18/77	1221	5:50	370	45.49N	171.44E	-52•	.026	•166	•16	10/18/77	1626	6:25	410	41.60N	134.75W	~58.	.006	•107	.06
10/18/77	1236	2:35	370	46.25N	175.05E	-54.		•112		10/18/77	1631	6:30	411	41.32N	133.87W	-59.	.007	-101	.07
10/18/77	1241	2:40	370	46.46N	176.28E	-54.		•150		10/18/77	1636	6:35	410	41.03N	132.98W	-59.	.000	•104	.00
10/18/77	1246	2:45	370	46.65N	177.50E	-55•		• 145		10/18/77	1641			40.73N	132.08W	-60.	.000	•062	
10/18/77	1251	2:50	370	46.83N	178.74E	-56•	.000	•134	•00	10/18/77	1646	6:45	410	40.43N	131.21W	~59.	.000	•067	
10/18/77	1301	3:00	370	47.05N	178.78W	-57•	.020	•142	• 14	10/j̃8/77	1651	6:50	410	40.12N	130.33W	-59.	.014	• 055	
10/18/77	1311	3:10	370	47.10N	176.19W	-57.	.001	•130	•01	10/18/77	1701	7:00	410	39.49N	128.68W	-58.	.000	• 059	
10/18/77	1331	3:30	390	47.05N	171.38W	-57.		•133		10/18/77	1711	7:10	410	38.76N	127.09W	. <b>-</b> 59.	.001	.080	
10/18/77	1336	3:35	390	47.01N	170.20W	-56•	.000	•134	•00	10/18/77	1736	7:35	410	37.40N	123.16W	-54.	.005	•165	.03
210/18/77	1341	3:40	390	47.04N	169.05W	-56.	.002	• 140	.01	10/18/77	1741	7:40	410	37.22N	122.34₩	<del>-</del> 55.	.024	•156	.15
										10/18/77	1751	7:50	410	36.48N	120.91W	-54.	.010	•156	.06



LAX TO HND (PAGE 1 OF 1) DEPARTURE: 18 OCT 77 AIRCRAFT; PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE - 454 CABIN OZONE - .044 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .12 TOTAL OBS IN CABIN: 69 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
10/18/77	2105	0:10	339	35.58N	120.37W	<b>-51</b>		•112		10/19/77	0240	5:45	390	54.08N	177.19W	-48.	.018	•357	.05
10/18/77				36.17N	120.85W			•131		10/19/77		5:50	390	54.06N	178.20W	-47.	.018	•363	.05
10/18/77	2120			37.19N	122.10W			•132		10/19/77	0250	5:55	390	54.03N	179.28W	-47.	.004	-218	.02
10/18/77	2130	0:35	350	38.17N	123.40W	-51.		•113		10/19/77	0300	6:05	390	53.98N	178.62E	₹47.	.016	•359	.04
10/18/77	2140			39.10N	124.69W	-51.		•112		10/19/77	0310	<b>6:</b> 15	390	53.92N	176.51E	-47.	.004	•343	.01
10/18/77	_			39.55N	125.33W		.000	•083		10/19/77			-	53.82N	174.41E		.017	•345	.05
10/18/77				40.40N	126.59W			•062		10/19/77				53.69N	172.31E		.015	•503	.07
10/18/77				40.79N	127.28W			• 058		10/19/77			_	53.61N	171.27E		.016	•328	.05
10/18/77				41.76N	129.45W			•062	• •	10/19/77				53.53N	170.22E		.024	•330	.07
10/18/77				42.42N	130.90W		.000	.128	•00	10/19/77				53.28N	169.25E		.012	•336	.04
10/18/77 10/18/77		_		43.09N	132.40W		•006	•155	• 04	10/19/77				52.99N	168.28E		.037	• 393	.09
10/18/77				43.41N 43.75N	133.15W		.010	-149	•07 •04	10/19/77 10/19/77				52.44N 51.85N	166.52E		.011	• 454	.02
10/18/77				44.36N	133.94W 135.47W		.005	•124 •126	•06	10/19/77				51.28N	163.21E	-	.017 .006	•392 •342	.04
10/18/77				45.53N	138.63W		• • • • •	•122	• • •	10/19/77				50.67N	161.63E		.026	•401	.06
10/18/77				46.11N	140.23W		.006	•555	•03	10/19/77				50.36N	160.86E		.036	•414	.09
10/18/77				46.81N	141.75W		.010	•226	• 04	10/19/77				50.11N	160.26E		.020	•421	.05
10/18/77				47.14N	142.50W		.009	•222	• 04	10/19/77				49.68N	159.36E		.011	•431	.03
10/18/77	_			47.80N	144.04W		.000	-163	•00	10/19/77				48.57N	157.26E		.010	428	.02
10/19/77	0000	_		48.44N	145.64W		.009	.166	• 05	10/19/77		8:15	410	47.80N	155.89E		.027	.384	.07
10/19/77	0010	3:15	390	49.06N	147.28W	-56.	.005	•178	•03	10/19/77		8:25	410	47.01N	154.56E		.015	.326	.05
10/19/77		3:25	390	49.64N	148.94W	-56.	.009	•188	• 05	10/19/77	0525	8:30	410	46.62N	153.93E	-46.	.006	•289	.02
₹10/19/77				50.22N	150.62W		.023	•305	•08	10/19/77		8:40	410	45.85N	152.72E		.007	•218	.03
ದ 10/19/77				50.52N	151.46W		.026	•308	•08	10/19/77				45.47N	152.13E		.007	•245	.03
10/19/77				50.81N	152.32W		.019	•315	•06	10/19/77				45.07N	151.53E		.000	•174	.00
10/19/77	-			51.09N	153.19W		.018	• 326	•06	10/19/77				44.69N	150.98E		.007	.300	.02
10/19/77				51.37N	154.08W		.019	• 340	•06	10/19/77				43.90N	149.81E		.024	•435	.06
10/19/77				51.91N	155.85W		.021	•350	•06	10/19/77				43.23N	148.62E		.001	•335	.00
10/19/77				52.91N	159.64W		.022	•386	•06	10/19/77				42.57N	147.51E	_	.000	.107	.00
10/19/77				53.24N	161.73W		.032	•397	•08	10/19/77				41.95N 41.64N	146.47E		.004	•098	
10/19/77 10/19/77				53.37N	162.80W		.026	•389	•07	10/19/77				41.34N	145.99E		.036	•093	۸.0
10/19/77			_	53.49N 53.61N	163.88W 164.96W		.024 .018	•412 •407	•06 •04	10/19/77 10/19/77				41.04N	145.51E 145.04E		.000 .000	•112	•00
10/19/77				53.71N	166.05W		.044	•396	•11	10/19/77				40.73N	144.56E		•000	•063 •104	0.0
10/19/77				53.89N	168.27W		.018	•413	•11	10/19/17				40.13N	144.56E		.012	.104	.00
10/19/77				54.00N	169.96W		.023	•405	•06	10/19/77		_		39.50N	142.75E		.000	•103	.00
10/19/77				54.08N	172.74W		.018	•367	•05	10/19/77				38.85N	141.84E		.000	•037	• 0 •
10/19/77				54.10N	174.91W		.024	•367	•07	10/19/77				38.15N	141.05E		.000	•054	
10/19/77	-			54.10N	176.00W		.022	•371	•06	10/19/77				37.68N	140.80E		.000	.023	
		3.10	J / J	4 1 0 14	- 1 O # 0 0 W	<b>₹</b> /•		-3,4		10/19/77				37.25N	140.53E			.054	
										1-,	- · · •	• •	_						



MAXIMUM VALUES: AMBIENT OZONE= .252 CABIN OZONE= .014 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .11 TOTAL OBS IN CABIN: 47
DATA SQURCE: GASP TAPE VL014, FILE 1

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

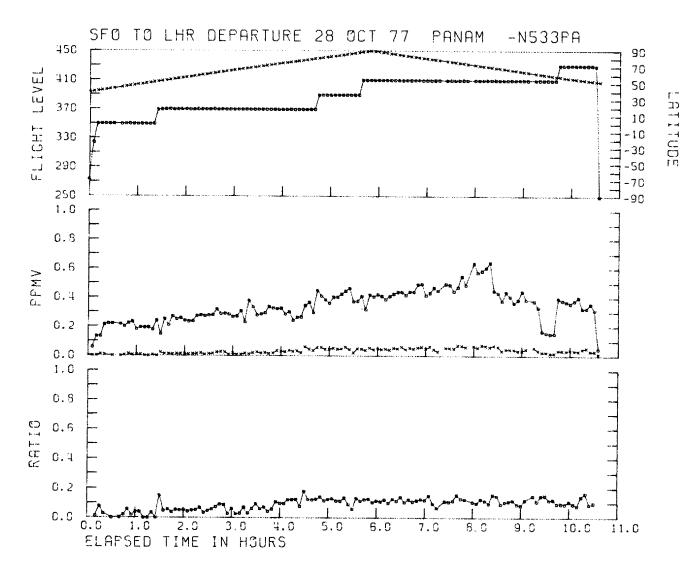
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) CABIN AMB.	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO
10/19/77	1011	0:15	370	36.48N	143.56E	-48.	• 025	10/19/77	1354	3:58	390	45.11N	164.51W	-54.	.000		
10/19/77	1021	0:25	370	37.30N	145.50E	-49.	•026	10/19/77	1359	4:03	390	45.10N	163.37W	-54.	.000		
10/19/77	1036	0:40	370	38.47N	148.54E	-49.	•027	10/19/77	1414	4:18	390	45.00N	160.04W	-56.	.001	•136	.01
10/19/77	1041	0:45	370	38.85N	149.58E	<b>~49</b> .	.000 .025	10/19/77	1424	4:28	390	44.86N	157.82W	-54.	.000	•114	.00
10/19/77	1046	0:50	370	39.22N	150.63E	-50.	.000 .024	10/19/77	1434	4:38	390	44.68N	155.65W	-55•	.007	• 252	.03
10/19/77	1056	1:00	370	39.95N	152.77E	-49.	.000 .062	10/19/77	1444	4:48	390	44.45N	153.48W	-59•	.010	•154	.06
10/19/77	1106	1:10	370	40.63N	154.98E	-49.	•076	10/19/77	1449	4:53	390	44.33N	152.43W	-61.	.000	<ul><li>147</li></ul>	.00
10/19/77	1121	1:25	370	41.60N	158.41E	-48.	.014 .096	10/19/77	1454	4:58	390	44.19N	151.34W	-62.	.005	•161	.03
10/19/77	1126	1:30	370	41.89N	159.58E	-48.	.000 .094	10/19/77	1459	5:03	390	44.04N	150.26W	-64.	.007	-141	.05
10/19/77	1131	1:35	370	42.19N	160.76E	-47.	.008 .092	10/19/77	1504	5:08	390	43.87N	149.14W	-65.	.000	.114	.00
10/19/77	1136	1:40	371	42.47N	161.95E	-49.	•000 •095	10/19/77	1514	5:18	390	43.50N	146.98W	-65.	.000	•050	
10/19/77	1141	1:45	371	42.74N	163.15E	-50.	•072	10/19/77	1524	5:28	390	43.08N	144.80W	-65.		.074	
10/19/77	1151	1:55	370	43.24N	165.59E	<del>-</del> 53.	.000 .059	10/19/77	1534	5:38	390	42.66N	142.80W	-65.	.000	•069	
10/19/77	1204A	5:08	370	43.83N	168.93E	-54.	•058	10/19/77	1544	5:48	390	42.19N	140.78W	-65.	.000	·105	.00
10/19/77		2:13	370	44.01N	170.09E	-55.	.002 .049	10/19/77			_	41.96N	139.83W		•006	• 099	
10/19/77	1214A	2:18	370	44.19N	171.40E	-55•	.000 .048	10/19/77	1554	5:58	390	41.71N	138.85W	-60.	.002	•140	.01
10/19/77	1219A	2:23	379	44.34N	172.58E	-58•	.001 .047	10/19/77	1559		_	41.46N	137.88W	-61.	.009	•156	.06
10/19/77	1224	2:28	390	44.49N	173.80E	-60.	.000 .058	10/19/77	1604	6:08	390	41.20N	136.94W		.006	•155	.04
10/19/77	1234	5:38	390	44.73N	176.27E	-60.	.010 .057	10/19/77	1614	_		40.68N	135.14W		.000	•134	•00
10/19/77	1249	2:53	391	45.00N	179.97W	-61.	.000 .060	10/19/77				39.56N	131.61W		.000	•127	.00
10/19/77				45.05N	178.74W		.012 .062	10/19/77				38.76N	128.98W		•007	•098	
B10/19/77		3:03	390	45.08N	177.48W	-60.	• 064	10/19/77	1654			38.54N	128.07W	-	.011	•104	•11
10/19/77		3:08	390	45.10N	176.22W	-60.	.000 .066	10/19/77				38.31N	127.17W		.000	<ul><li>106</li></ul>	.00
ज10/19/77		3:18	390	45.10N	173.75W	-59.	.000	10/19/77				38.08N	126.28W		.000	•098	
10/19/77	1324		-	45.05N	171.36W	-57.	.000	10/19/77	_		_	37.89N	125.40W		.000	•097	
10/19/77	_	3:48	390	45.10N	166.70W	-54•	.000	10/19/77				37.50N	123.56W		.010	•101	.10
10/19/77	1349	3:53	390	45.11N	165.61W	-55•	.000	10/19/77			_	36.87N	121.94W		.009	•096	
								10/19/77	1739	7:43	370	35.99N	120.52W	-48.	.000	.079	

MAXIMUM VALUES: AMBIENT OZONE= .519 CABIN OZONE= .130 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.10 TOTAL OBS IN CABIN: 81
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE ( CABIN	PPMV) AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO
10/19/77	2033	0:10	333	35.38N	120.30W	-42.	.000	•070		10/20/77	0209	5:46	390	54.54N	175.99W	-51.	.044	•426	.10
10/19/77				36.37N	121.31W		.000	•068		10/20/77				54.42N	177.06W		.040	•426	.09
10/19/77				37.38N	122.26W		.012	•083		10/20/77		5:56	390	54.29N	178.10W	-51.		.434	
10/19/77				38.55N	123.00W		.019	•091		10/20/77	0229	6:06	390	54.01N	179.81E	-51.	.040	•411	,, 10
10/19/77	2108	0:45	350	39.16N	123.36W	-54.	.015	•113	•13	10/20/77	0239	6:16	410	53.97N	177.70E	-50.	.042	•504	.08
10/19/77	2113			39.75N	123.71W	-54.	.008	•122	•07	10/20/77	0249	6:26	410	53.90N	175.58E	-50.	.067	•519	.13
10/19/77	2118	0:55	350	40.34N	124.06W	-56.	.037	•109	• 34	10/20/77	0259	6:36	410	53.78N	173.43E	-50.	.046	•451	.10
10/19/77	2123	1:00	350	40.89N	124.46W	~55∙	.002	•116	•02	10/20/77	0304	6:41	410	53.71N	172.35E	-49.	.042	.427	.10
10/19/77	2133	1:10	351	41.93N	125.41W	-59•	.030	•062		10/20/77		6:46	410	53.63N	171.28E		.052	•463	.11
10/19/77				43.43N	126.86W		.012	• 063		10/20/77			_	53.54N	170.21E		.031	.367	.08
10/19/77				44.36N	127.98W		.012	•100		10/20/77		6:56	410	53.34N	169.21E		•042	•442	.10
10/19/77				44.83N	128.56W		.003	•119	•03	10/20/77				52.77N	167.29E		• 052	•451	.12
10/19/77				45.31N	129.15W		.005	•136	• 04	10/20/77			_	51.53N	163.61E		• 036	•463	.08
10/19/77				45.78N	129.76W		.010	•136	•07	10/20/77				50.86N	161.85E		.045	•438	.10
10/19/77		-		46.22N	130.42W		.001	•119	•01	10/20/77				50.52N	161.00E		.039	•448	.09
10/19/77	-		_	46.63N	131.13W		.130	•118		10/20/77				50.17N	160.14E		• 050	+410	•12
10/19/77				47.43N	132.57W		.018	•133	•14	10/20/77		_		49.83N	159.38E		.024	.272	.09
10/19/77				48.22N	134.04W		.000	•132	•00	10/20/77				49.45N	158.64E		.030	•501	.06
10/19/77		_		48.98N	135.57W		.063	•174	• 36	10/20/77				48.69N	157.22E		.021	•217	.10
10/19/77				49.72N	137.12W		.011	•163	•07	10/20/77				47.94N	155.86E		.016	.211	.08
10/19/77	-			50.07N	137.91W		.013	•126	•10	10/20/77				47.21N	154.61E		.015	.219	.07
≥10/19/77				50.43N	138.70W		.016	•135	•12	10/20/77				46.51N	153.46E		.016	•318	.05
\$10/19/77				51.48N	141.42W		.011	•127	•09	10/20/77				46.15N	152.90E		•029	•253	.11
310/19/77 10/19/77				52.10N 52.70N	143.27W		.011	•132	•08 •08	10/20/77 10/20/77				45.80N 45.44N	152.34E 151.79E		.025 .039	•096	16
				53.52N				•144 •194	•06					45.08N	151.79E			.242	.16
10/20/77 10/20/77				53.78N	148.14W 149.17W		.011	•259	•27	10/20/77 10/20/77				44.36N	150.21E		.000 .001	•126	•00
10/20/77				54.04N	150.26W		.033	•237	•09	10/20/77				43.64N	149.188		.000	.116	.00
10/20/77	-			54.19N	151.41W		.028	•416	•07	10/20/77			-	42.93N	148.19E		.022	•139	.16
10/20/77				54.47N	153.68W		.018	•365	•05	10/20/77				42.23N	147.24E		.011	•132	.08
10/20/77				54.89N	158.21W		.039	•401	•10	10/20/77				41.88N	146.78E		047	.130	.36
10/20/77				55.03N	160.49W		.041	•373	•11	10/20/77				41.18N	145.87E		013	.120	.11
10/20/77				55.07N	161.62W		.039	•384	•10	10/20/77			-	40.81N	145.41E		.008	.116	.07
10/20/77	-			55.09N	162.75W		.037	• 366	•10	10/20/77				40.07N	144.47E		.010	.113	.09
10/20/77				55.11N	163.87W		.039	•380	.10	10/20/77		-		39.35N	143.55E		.029	.106	.27
10/20/77				55.12N	164.99W		.038	•396	•10	10/20/77		10:26		-	142.64E		.010	.095	•
10/20/77				55.10N	167.23W		.032	• 356	•09	10/20/77		-		37.89N	141.75E		.060	.076	
10/20/77	-			55.04N	169.47W		.033	•383	•09	10/20/77	0704	10:41	430	37.56N	141.32E		.006	.078	
10/20/77	-			54.91N	171.69W		.039	•357	•11	10/20/77		_		37.22N	140.88E		.000	.056	
10/20/77				54.74N	173.88W		.028	.227	.12	10/20/77	0714			36,90N	140.40E	-45.	.000	.066	
10/20/77					174.93W		.044	.412	•11	10/20/77	0719A				140.15E	-23.	.005	.058	

MAXIMUM VALUES: AMBIENT OZONE= .401 CABIN OZONE= .063 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .21 TOTAL OBS IN CABIN: 69
DATA @OURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP			RATIO	MOZDAZYR	GMT	ETIM HR:MN	EL	LAT	LONG	TEMP	OZONE (		RATIO
		LIK + MIA				(6)	CADIN	AMB.				Litz • Litz				(4)	CABIN	AMD.	
10/20/77	1003	0:15	330	36.20N	143.80E	-34.	.006	•039		10/20/11	151A	5:30	390	49.18N	143.48W	-52.	.018	.388	.05
10/20/77				37.09N	145.64E		.006	•079		10/20/77				49.13N	141.07W		.040	-390	10
10/20/77	1024			37.95N	147.54E		.000	•076		10/20/77				49.09N	139.91W	-51.	.035	• 326	.11
10/20/77	1033	0:45	345	38.77N	149.43E		.018	•074		10/20/77	1538	5:50	390	49.14N	138.75W	-50.	.017	•331	.05
10/20/77	1038	0:50	364	39.16N	150.43L	-45.	.011	•050		10/20/77	1543	5:55	390	49.21N	137.61W	-50.	.035	.329	.11
10/20/77	1048	1:00	370	39.88N	152.54E	-45.	.004	•046		10/20/77	154B	6:00	390	49.27N	136.48W	-51.		.324	
10/20/77	_			40.58N	154.72E	-45.	.011	•042		10/20/77				49.39N	133.12W	-53.	.038	•343	.11
10/20/77				41.22N	156.93E	-45.	.000	• 044		10/20/77	1613	6:25	390	49.40N	130.90W	-59.	.018	•166	.11
10/20/77				41.84N	159.21E		.017	•044		10/20/77			_	49.34N	128.70W		•006	•187	.03
10/20/77				42.68N	162.69€		.001	• 059		10/20/77	_			49.17N	126.58W		•006	•129	.05
10/20/77		_		42.94N	163.88E		.055	•084		10/20/77				49.08N	125.50W		.029	•135	.21
10/20/77	_	-		43.19N	165.09E		.004	•089		10/20/77				49.07N	124.45W		.017	•139	.12
10/20/77				43.65N	167.53E		.000	•100		10/20/77				49.08N	123.36W		.013	•145	.09
10/20/77				44.33N	171.13E			•113		10/20/77				49.12N	122.29W		.021	•156	.13
10/20/77	-			44.88N	173.49E		.000	•194		10/20/77			_	49.30N	120.12W	-	.007	•224	.03
10/20/77	_			45.36N	175.85E		.000	-218		10/20/77				49.43N	117.95W		.026	•152	•17
10/20/77				45.59N	177.05E	-	.000	•231		10/20/77				49.52N	115.75W		.012	•160	.08
10/20/77	_			45.80N	178.26E	_	.006	•208		10/20/77				49.70N	113.55W		.010	•135	.07
10/20/77	_			46.00N	179.45E		.025	•260		10/20/77	-			49.85N	111.31W		.015	-170	.09
10/20/77				46.22N	179.39W	_		• 324		10/20/77				49.92N	110.16W	-	.019	•181	.10
10/20/77	_			46.75N	177.15W		.034	•396		10/20/77				50.28N	106.71W	-	.026	•248	.10
10/20/77				47.24N	174.83W		.031	• 345		10/20/77				50.57N	104.45W		.024	•228	•11
£10/20/77		-		47.66N	172.58W		.010	•401		10/20/77			-	50.52N	102.14W		.011	•146	.08
210/20/77		-		48.21N	169.17W		.063	•334	-	10/20/77				50.34N	98.60W		.009	-123	.07
10/20/77	_			48.36N	168.04W		.058	•321		10/20/77				49.95N	96.36W		.017	•137	.12
10/20/77				48.50N	166.91W		.017	•341	• 05	10/20/77				49.72N	95.27W		.007	•155	.05
10/20/77	_			48.63N	165.76W		.014	•186		10/20/77				49.23N	93.12W		•002	-125	.02
10/20/77				48.86N	163.43W		.017	•214		10/20/77				48.68N 48.10N	91.05W		•005	•102	.05
10/20/77	-			49.17N	158.55W		.021	•218		10/20/77				48.10N	89.03W 87.14W	-	.012	•130	.09
10/20/77 10/20/77				49.20N	157.31W		.025	•242		10/20/77 10/20/77				+7.12N	86.20W		.011	•139	.08
				49.22N	154.82W		.014	•194		10/20/77				46.78N	85.26W		.021	•126	.17
10/20/77 10/20/77		-		49.21N 49.18N	153.55W		.019	-140	-	10/20/77	-			46.42N	84.35W		.004	•131	.03
10/20/77	_		_	49.18N	152.25W 150.91W		.007	•136 •143		10/20/77				46.04N	83.46W	-	.012	•125 •121	.10 .05
10/20/77				49.14N	148.39W		.011	•145		10/20/77				45.27N	81.67W	_	.021	•121	• 00
10/20/77	-			49.18N	145.88W		.023	•231		10/20/77				42.27N	75.95W		.014	•077	
10/50/11	1200	3.50	370	43010N	743 * 00#	-55	• 0 2 3	• 2 3 1	• 1 0	10/20/77				41.79N	75.24W		4014	•116	
										*0,50/11	5043	10.33	* A U	4 X 6 1 2 14	10054	- 5 2 4		4110	



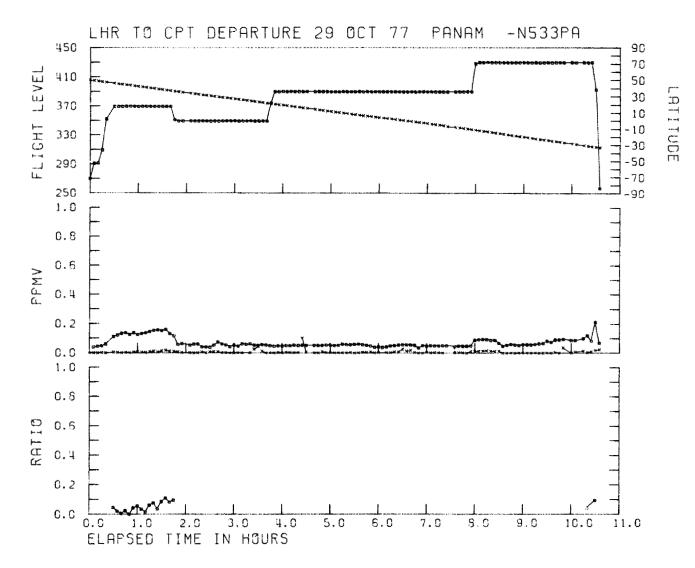
MAXIMUM VALUES: AMBIENT OZONE= .642 CABIN OZONE= .073 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .18 TOTAL OBS IN CABIN:123
DATA SOURCE: GASP TAPE VL009, FILE 1

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

										- ,,									
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	CARIN OZONE (	PPMV) AMB.	RATIO	.MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RATIO
10/28/77	21054	0.00	273	38.85N	122.05W	-27	.004			10/29/77	01004	3:55	370	74.04N	121.86W	-55-	.035	•323	.11
10/28/77				39.67N	122.13W	_	.000	• 058		10/29/77				74.73N	121.86W		.032	•327	.10
10/28/77				40.35N	122.19W		.002	•132	•01	10/29/77				75.32N	121.86W		.027	•287	.10
10/28/77				41.22N	122.28W		.010	•133	•08	10/29/77				76.10N	121.86W		.037	•302	.12
10/28/77				41.90N	122.34W		.006	.213	•03	10/29/77				76.71N	121.85w		.030	.244	.12
10/28/77	_			42.77N	122.43W	_	••••	•550	•••	10/29/77				77.48N	121.83W		.033	•264	13
10/28/77	4			43.44N	122.50W		.000	•219	•00	10/29/77				78.07N	121.82W		.021	•266	.08
10/28/77				45.06N	122.67W		.000	-216	•00	10/29/77				78.83N	121.78W		.062	•345	.18
10/28/77		_	-	45.80N	122.75W		004	•201	.02	10/29/77		and the second second		79.44N	121.74W		.046	•36A	.12
10/28/77				46.55N	122.84W		.013	•224	• 06	10/29/77				80.21N	121.69W		.036	•296	.12
10/28/77	A0055	0:55	350	47.31N	122.93W		.004	•234	• 0 2	10/29/77	0150A	4:45	390	80.90N	121.63W		.057	• 447	.13
10/28/77	2205A	1:00	349	48.06N	123.02W	-56.	.007	•183	•04	10/29/77	0155A	4:50	390	81.59N	121.56W	-52.	.058	•412	.14
10/28/77	2210A	1:05	350	48.71N	123.10W	-56.	.008	•193	• 0 4	10/29/77	0200A	4:55	390	82.27N	121.48W	-51.	.045	-386	.12
10/28/77	2215A	1:10	350	49.55N	123.09W	-57.	.000	•193	•00	10/29/77	0205A	5:00	390	82.95N	121.40W	-52.	.046	•363	.13
10/28/77	2220A	1:15	349	50.22N	122.99W	-57.	.000	•193	• 0 0	10/29/77	0210A	5:05	390	83.57N	121.32W	-51.	.053	•404	.13
10/28/77	2225A	1:20	350	51.09N	122.88W	-58.	.006	•179	•03	10/29/77	0215A	5:10	390	84.37N	121.21W	-52.	.046	• 404	.11
10/28/77	2230A	1:25	369	51.74N	122.78W	-53.	.000	•241	• 0 0	10/29/77	0220A	5:15	390	84.98N	121.11W	-52.	.048	•425	.11
10/28/77	2235A	1:30	369	52.58N	122.67W	-55•	.023	•149	•15	10/29/77	0225A	5:20	390	85.76N	120.96W	-52.	.060	• 445	.13
10/28/77	2240A	1:35	370	53.24N	122.71W	-53•	.012	•251	• 05	10/29/77	A0E20	5:25	390	86.37N	120.80W	-52.	.043	•465	•09
10/28/77	2245A	1:40	370	54.07N	122.75W	-52•	.012	•211	•06	10/29/77	0235A			87.14N	120.51W	-53.	.022	• 375	.06
10/28/77			_	54.83N	122.78W		.010	•270	• 04	10/29/77				87.75N	120.13W		.050	•378	.13
10/28/77	2255A			55.59N	122.82W		.013	•251	• 05	10/29/77				88.52N	119.17W		.047	•410	.11
10/28/77	2300A			56.35N	122.86W		.013	•259	• 05	10/29/77	-			89.21N	116.60W		•040	•319	.12
<sup>∞</sup> 10/28/77				57.12N	122.91W		.013	•241	• 05	10/29/77				89.87N	85.83W		.054	•420	٠13
10/28/77				57.80N	122.93W		.010	•236	• 0 4	10/29/77				89.44N	14.90E		.042	•408	.10
10/28/77				58.68N	122.97W		.012	•238	• 05	10/29/77				88.81N	4.23E		.049	•423	.12
10/28/77				59.33N	122.92W		.015	•273	• 05	10/29/77		-		88.13N	4.67E	7	.045	•412	.11
10/28/77				60.18N	122.80W	-	.019	•278	•07	10/29/77		** * .		87.47N	4.87E		.047	•390	.12
10/28/77				60.85N	122.70W		.010	•273	• 0 4	10/29/77		and the second second		86.55N	5.02E		•041	•410	.10
10/28/77				61.71N	122.57W		.013	•278	• 05	10/29/77				86.00N	5.08E		.054	•427	.13
10/28/77				62.37N	122.46W		.016	•280	• 06	10/29/77		***		85.22N 84.42N	5.16E		.050	•439	.11
10/28/77 10/28/77				63.20N 63.93N	122.32₩		.024	•318	• 07	10/29/17 10/29/77				83.85N	5.24E 5.28E		.062	•439	.14
10/28/77				64.66N	122.19W 122.05W	_	.026 .025	•289 •290	•09 •09	10/29/77				83.08N	5.35E		.044 .054	•419 •441	.11 .14
10/29/77				65.40N	121.97W		.008	•285	•03	10/29/77				82.52N	5.39E		.048	•440	.11
10/29/77				66.14N	121.97W		.017	•268	•05	10/29/77				81.76N	5.44E		.058	•492	.12
10/29/77				66.79N	121.96W		.007	•272	•03	10/29/77		1.4		81.09N	5.48E		.062	•496	.12
10/29/77	_			67.62N	121.94W		.009	•307	•03	10/29/77				80.42N	5.51E		.050	•418	.12
10/29/77		_		68.24N	121.93W		.016	•232	•07	10/29/77				79.77N	5.53E		.065	•432	.15
10/29/77				69.04N	121.91W		.012	•379	•03	10/29/77				79.10N	5.54E		.045	•470	.10
10/29/77				69.67N	121.91W		.021	•336	•06	10/29/77				78.55N	5.55E		.030	•449	.07
10/29/77				70.47N	121.88W		.026	•280	•09	10/29/77				77.09N	5.54E		.055	•495	11
10/29/77		-		71.11N	121.87W		.017	•287	•06	10/29/17				76.52N	5.53E		.053	•489	.11
10/29/77		-		71.92N	121.86W		021	•295	•07	10/29/77				75.75N	5.52E		.051	• 446	.11
10/29/77				72.64N	121.86W		.015	•338	•04	10/29/77				75.19N	5.52E		.073	•473	15
10/29/77	-	-		73.35N	121.86W		.019	•327	•06	10/29/77				74.42N	5.51E		.071	•548	.13
10/2///	UUJJA	3.20	3,0	۱۷ و ۱۷	* E I * OOW	· 23•	,	¥ 3 C 1		÷4, 627, 1	U , U J A	: •	3				• - , •		• • =

MAXIMUM VALUES: AMBIENT DZONE= .642 CABIN DZONE= .073 RATIO (LIMITED TO AMB. DZONE ABOVE 0.1)= .18 TOTAL OBS IN CABIN:123
DATA SOURCE: GASP TAPE VL009, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT ETIM FL HR:MN			BIN AMB.		MONDANYR (	GMT ETIM HRIMN	FL LAT	LONG TEMP (C)	CABIN /	PMV) RATIO AMB.	U
10/29/77 0548A 8:43 410 10/29/77 0553A 8:48 410 10/29/77 0558A 8:53 410 10/29/77 0603A 8:58 410	72.36N 5.52E 71.78N 5.52E 70.99N 5.54E 70.41N 5.54E 69.62N 5.56E 69.05N 5.57E 68.26N 5.57E 66.87N 5.58E 66.87N 5.58E 66.17N 5.58E 66.17N 5.58E 66.47N 5.58E 66.47N 5.58E	-49. -52. -51. -51. -51. -52. -54. -55. -54. -55. -56. -56.	061	.11 .10 .12 .11 .10 .16 .15 .09 .11 .11 .12	10/29/77 06 10/29/77 06 10/29/77 06 10/29/77 07 10/29/77 07 10/29/77 07 10/29/77 07 10/29/77 07 10/29/77 07 10/29/77 07	633A 9:28 638A 9:33 643A 9:38 648A 9:43 653A 9:48 658A 9:53 703A 9:58 703A 10:03 713A 10:08 713A 10:18 723A 10:23 733A 10:28 733A 10:28	410 61.38N 410 60.59N 410 60.02N 410 59.23N 410 58.54N 430 57.87N 430 57.87N 430 55.98N 430 55.28N 430 55.28N 430 54.18N 430 53.69N 430 53.02N 430 53.02N 429 52.54N 244 51.90N	5.18E -59 4.91E -62 4.80E -64 5.05E -65 5.18E -61 5.13E -60 5.11E -61 5.08E -61 4.75E -59 4.30E -61 3.21E -60 2.60E -60 2.18E -61	.025 .024 .018 .019 .038 .036 .034 .039 .035 .032 .047 .054	333 .11 168 .15 159 .15 151 .12 153 .12 3395 .10 3382 .10 3372 .09 361 .11 379 .09 403 .08 403 .08 403 .14 327 .16 3357 .09 314 .10	



MAXIMUM VALUES: AMBIENT DZONE = .212 CABIN DZONE = .043 RATIO (LIMITED TO AMB. DZONE ABOVE 0.1) = .11 TOTAL OBS IN CABIN:120 DATA SOURCE: GASP TAPE VL009, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

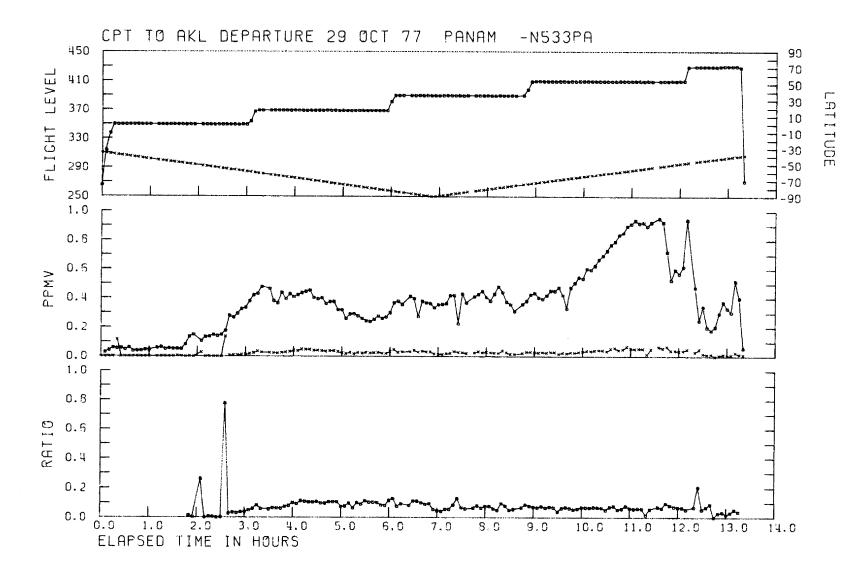
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZUNE (I	PPMV) AMB•	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PMV) AMB.	RAT10
10/29/77	1023	0:00	270	50.18N	.08W	-40.	.000			10/29/77	14244	4:01	390	19.34N	2.31E	-57.	.000	•047	
10/29/77				49.44N	.39E		.000	•039		10/29/77				18.60N	2.30E		.004	•050	
10/29/77		-		48.91N	.73E		.000	• 044		10/29/77				18.05N	2.29E		.002	•049	
10/29/77	- ,			48.17N	1.01E	_	.001	•047		10/29/77				17.30N	2.27E		.002	•053	
10/29/77	_			47.61N	1.05E		.000	•059		10/29/77				16.75N	2.26E		•003	•051	
10/29/77				46.20N	1.03E		.005	•111	•05	10/29/77				15.98N	2.24E			•053	
10/29/77				45.54N	1.15E		.003	•122	.02	10/29/77	-			15.43N	2.24E		.006	•051	
10/29/77	1104A	0:41	370	44.92N	1.42E	-60.	.001	•134	•01	10/29/77	1504A			14.02N	2.21E	-56.	.000	•051	
10/29/77	1109A	0:46	370	44.29N	1.69E	-60.	.003	•138	•02	10/29/77	1509A			13.47N	2.20E		.000	•051	
10/29/77	1114A	0:51	370	43.62N	1.87E	-61.	.000	•126	•00	10/29/77	1514A	4:51	390	12.72N	2.23E		.009	• 051	
10/29/77	1119A	0:56	370	43.05N	1.92E	-60.	.006	•138	• 0 4	10/29/77	1519A	4:50	390	12.18N	2.24E		.003	• 054	
10/29/77	1124A	1:01	370	42.29N	1.99E	-60.	.007	•125	•06	10/29/77	1524A			11.45N	2.26E		.002	• 054	
10/29/77	1129A	1:06	370	41.72N	2.05E	-60.	.005	•133	• 0 4	10/29/77	1529A	5:00	390	10.92N	2.28E	-56.	.001	•050	
10/29/77	1134A	1:11	370	40.97N	2.21E	-60•	.002	•138	•02	10/29/77	1534A	5:11	390	10.22N	2.29E	-56.	.001	.052	
10/29/77	1139A	1:16	370	40.42N	2.41E	-59.	.009	•147	•06	10/29/77	1539A	5:16	390	9.69N	2.31E	-56.	.001	•061	
10/29/77	1144A	1:21	370	39.67N	2.67E	-59•	.012	• 155	•08	10/29/77	1544A	5:21	390	8.94N	2.33E	-56.	.000	.057	
10/29/77	1149A	1:26	370	39.12N	2.86E	-59•	.006	•157	-04	10/29/77	1549A	5:26	390	8.29N	2.34E	-56.	.003	•057	
10/29/77	1154A	1:31	370	38.38N	3.11E	-59•	.013	•152	•09	10/29/77	1554A	5:31	390	7.66N	2.36E	-56.	.000	•059	
10/29/77	1159A	1:36	370	37.74N	3.33E	<del>-58•</del>	.018	•162	-11	10/29/77	1559A	5:36	390	7.03N	2.38E	-56.	.001	•061	
10/29/77	1204A	1:41	370	37.08N	3.54E	-59•	.011	•132	•08	10/29/77	1604A	5:41	390	6.40N	2.39E	-56.	.005	•057	
10/29/77			351	36.42N	3.72E	-56•	.011	•118	-10	10/29/77	1609A	5:46	390	5.90N	2.57E	-56.	.005	•053	
10/29/77 \$10/29/77	1214A	1:51		35.75N	3.85E	-54.	.007	• 058		10/29/77	1614A	5:51	390	5.22N	2.82E	-55.	.008	•049	
1 10/29/77	1219A	1:56		35.19N	3.85E		.003	• 064		10/29/77		5:56		4.73N	3.01E		.001	• 040	
8 10/29/77				33.77N	3.84E		.001	• 052		10/29/77		6:01		4.05N	3.26E		.003	• 042	
10/29/77				33.2IN	3.83E		.000	•060		10/29/77		6:06		3.55N	J. 45E			•038	
10/29/77		-		32.45N	3.83E		.001	•061		10/29/77		6:11		2.86N	3.71E		.003	•042	
10/29/77	_			31.95N	3.61E		.007	•041		10/29/77		6:10		2.35N	J.90E		.003	•049	
10/29/77				31.30N	3.26E		.001	•041		10/29/77		6:21		1.65N	4.16E		.009	•051	
10/29/77				30.72N	2.95E		.008	•039		10/29/77		0:20		1.05N	4.38E		.009	• 054	
10/29/77				30.08N	2.83E		.008	•052		10/29/77		6:31		•43N	4.61E		.025	• 057	
10/29/77	_			29.43N	2.75E		•009	•074		10/29/77				.185	4.84E		.014	• 056	
10/29/77 10/29/77				28.80N	2.68E		100	•061		10/29/77				.805	5.07E		.019	•056	
10/29/77				28.26N	2.62E		.002	• 054		10/29/77		6:46		1.345	5.28E		.004	• 053	
10/29/77				27.53N	2.53E		.000	• 043		10/29/77			2	2.095	5.56E		.000	• 035	
				26.99N	2.49E		•000	• 053		10/29/77				2.645	5.76E		•000	•052	
10/29/77 10/29/77				26.26N	2.47E		.001	• 046		10/29/77		7:01		3.40S	6.04E		.005	• 047	
				25.71N	2.45E		.001	•062		10/29/77		7:06		3.95\$	6.25E		•002	• 051	
10/29/77				24.98N	2.43E		003	• 059		10/29/77		7:11	1.0	4.725	6.54E		.004	•049	
10/29/77				24.45N	2.42E		.001	• 062		10/29/77		7:16		5.30\$	6.69E		.002	•048	
10/29/77	_			23.73N	2.40E		.026	• 053		10/29/77		7:21		6.115	6.89E		•000	• 050	
10/29/77				23.09N	2.38E		.043	• 052		10/29/77		7:29	*	7.215	7.16E		003	• 050	
10/29/77				22.46N	2.36E		.014	• 057		10/29/77		7:35		8,045	7.36E		.001	• 045	
10/29/77 10/29/77				21.81N	2.35E		.000	• 054		10/29/77	_	7:40		8.61S	7.50E		•003	•048	
				21.15N	2.34E		.001	• 049		10/29/77		7:45		9.425	7.70E		.001	• 047	
10/29/77		-		20.63N	2.34E		.000	•046		10/29/77		7:50		9.995	7.85E		•000	• 047	
10/29/77	141AV	3:56	390	19.89N	2.33E	-5/•	.003	• 049		10/29/77	TOTRY	1.55	370	10.815	8.06E	-20.	.011	•048	

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MAXIMUM VALUES: AMBIENT OZONE= .212 CABIN OZONE= .043 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .11 TOTAL OBS IN CABIN:120
DATA SOURCE: GASP TAPE VL009, FILE 2

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

10/29/77 1823A 8:00 428 11.36S 8.20E -65011 .088 10/29/77 1938A 9:15 430 22.09S 11.98E -61000 .060 10/29/77 1828A 8:05 430 12.16S 8.42E -65012 .092 10/29/77 1943A 9:20 430 22.78S 12.32E -61000 .064 10/29/77 1833A 8:10 430 12.86S 8.60E -65016 .093 10/29/77 1948A 9:25 430 23.46S 12.67E -61000 .066 10/29/77 1848A 8:15 430 13.56S 8.79E -65017 .092 10/29/77 1953A 9:30 430 24.03S 12.96E -61000 .082 10/29/77 1848A 8:20 430 14.28S 8.98E -65013 .087 10/29/77 1958A 9:35 430 24.08S 13.37E -59000 .074 10/29/77 1853A 8:30 430 15.60S 9.18E -65011 .087 10/29/77 2008A 9:40 430 25.38S 13.66E -59005 .091 10/29/77 1858A 8:35 430 16.46S 9.57E -62000 .047 10/29/77 2008A 9:40 430 26.18S 14.08E -60001 .091 10/29/77 1903A 8:40 430 17.07S 9.74E -62000 .055 10/29/77 2013A 9:50 430 28.23S 15.19E -59001 .086 10/29/77 1913A 8:50 430 18.51S 10.24E -62000 .056 10/29/77 2038A 10:05 430 30.26S 15.49E -59009 .087 10/29/77 1913A 8:50 430 19.33S 10.63E -61000 .052 10/29/77 2048A 10:25 430 31.63S 17.08E -59011 .084 10/29/77 2048A 10:25 430 31.63S 17.08E -59011 .084	MO/DA/YR GMT	ETIM FL HR:MN	LAT LONG	TEMP (C)	OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV HŘ:MN (C) CABIN AMB	
10/29/77 1928A 9:05 430 20.72S 11.30E -62000 .057 10/29/77 2053A 10:30 393 32.17S 17.46E -56020 .212 .09	10/29/77 1828A 10/29/77 1833A 10/29/77 1838A 10/29/77 1843A 10/29/77 1853A 10/29/77 1858A 10/29/77 1903A 10/29/77 1908A 10/29/77 1913A 10/29/77 1918A 10/29/77 1918A 10/29/77 1923A	8:05 430 8:10 430 8:15 430 8:20 430 8:25 430 8:30 430 8:35 430 8:40 430 8:40 430 8:50 430 8:55 430 9:00 430	12.16S 8.42E 12.86S 8.60E 13.56S 8.79E 14.28S 8.98E 15.00S 9.18E 15.60S 9.34E 16.46S 9.57E 17.07S 9.74E 17.93S 9.98E 18.51S 10.24E 19.33S 10.63E 19.91S 10.91E	-65. -65. -65. -65. -65. -64. -62. -62. -62. -61. -62.	.012 .092 .016 .093 .017 .092 .013 .087 .011 .087 .014 .068 .000 .047 .000 .055 .000 .060 .000 .056 .000 .052	10/29/77 1943A 9:20 430 22.78S 12.32E -61000 .06 10/29/77 1948A 9:25 430 23.46S 12.67E -61000 .06 10/29/77 1953A 9:30 430 24.03S 12.96E -61000 .08 10/29/77 1958A 9:35 430 24.82S 13.37E -59000 .07 10/29/77 2003A 9:40 430 25.38S 13.66E -59005 .09 10/29/77 2008A 9:45 430 26.18S 14.08E -60001 .09 10/29/77 2013A 9:50 430 26.74S 14.39E -61037 .09 10/29/77 2023A 10:00 430 28.23S 15.19E -59001 .08 10/29/77 2028A 10:05 430 28.80S 15.49E -59009 .08 10/29/77 2038A 10:15 430 30.26S 15.30E -61014 .09 10/29/77 2043A 10:20 430 30.94S 15.68E -58005 .11 10/29/77 2048A 10:25 430 31.63S 17.08E -59011 .08	4 6 6 7 7 9 • 04



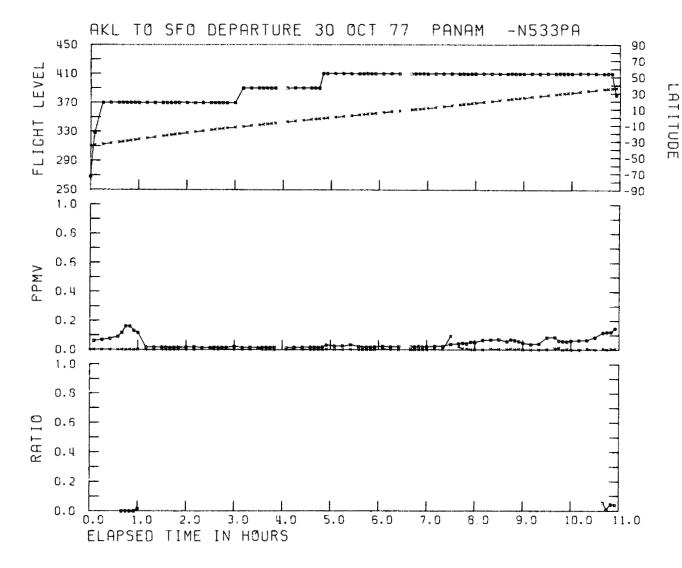
MAXIMUM VALUES: AMBIENT OZONE= .951 CABIN OZONE= .071 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .26 TOTAL OBS IN CABIN: 153
DATA SOURCE: GASP TAPE VL009, FILE 3 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE( CABIN	PPMV) AMB.	RAT10
10/29/77	2324A	0:00	266	35.615	18.62E	-33.	.000			10/30/77	0329A	4:05	369	67.655	18.60E	-59.	.039	.422	.09
10/29/77				36.295	18.62E		.000	•029		10/30/77	0334A	4:10	369	68.385	18.60E	-60.	.049	•436	.11
10/29/77		0:10	337	36.855	18.62E	-53.	.000	•043		10/30/77	0339A	4:15	369	68.965	18.60E	-60.	.048	•445	.11
10/29/77				37.585	18.62E		.001	•059		10/30/77	0344A	4:20	369	69.705	18.60E	-60.	.048	•453	.10
10/29/77				38.175	18.64E			• 054		10/30/77	0349A	4:25	369	70.295	18.60E	-62.	.042	•403	.10
10/29/77		0:25	349	38.895	18.62E		.000	• 058		10/30/77	0354A	4:30	369	71.055	18.60E	-63.	.043	.395	.11
10/29/77	2354A	0:30	350	39.47S	18.62E		.000	•048		10/30/77	0359A	4:35	369	71.735	18.60E	-63.	.039	·402	.10
10/29/77		0:35	350	40.215	18.61E	-55.	.000	•061		10/30/77	0404A	4:40	369	72.405	18.60E	-65.	.035	•363	.10
10/30/77	0U04A	0:40	350	40.875	18.61E		.001	•038		10/30/77	0409A	4:45	369	73.085	18.60E	-64.	.040	•375	.11
10/30/77	0009A	0:45	350	41.525	18.61E	-55.	.000	•039		10/30/77	0414A	4:50	369	73.765	18.60F	-64.	.040	•376	.11
10/30/77	0014A	0:50	350	42.185	18.61E	-55.	.000	•040		10/30/77	0419A	4:55	369	74.355	18.60E	-66.	.034	.321	.11
10/30/77	0019A	0:55	350	42.83\$	18.61E	-55.	.000	•047		10/30/77	0424A	5:00	369	75.10S	18.60E	-66.	.024	.320	.08
10/30/77	0024A	1:00	350	43.405	18.61E	-56•	.000	• 044		10/30/77	0429A	5:05	369	75.685	18.60E	-69.	.020	•261	80.
10/30/77	0034A	1:10	350	44.785	18.61E	-56.	.000	•060		10/30/77	0434A	5:10	369	76.425	18.60E	-67.	.029	•292	.10
10/30/77	APEUD	1:15	349	45.345	18.61E	-55.	.001	•064		10/30/77	0439A	5:15	369	77.005	18.60E	-68.	.019	.294	.06
10/30/77	0044A	1:20	350	46.045	18.61E	-56.	.001	•051		10/30/77	0444A	5:20	369	77.758	18.60E	-69.	.028	.279	10
10/30/77	0049A	1:25	350	46.598	18.61E	-55.	.000	•056		10/30/77	0449A	5:25	369	78.345	18.60E	-70.	.023	•261	.09
10/30/77	0054A	1:30	350	47.295	18.61E	-56.	.001	• 052		10/30/77	0454	5:30	369	79.10S	18.60E	-69.	.028	.246	.11
10/30/77	0059A	1:35	350	47.925	18.61E	-56•	.005	•053		10/30/77	0459A	5:35	369	79.76S	18.60E	-70.	.025	.240	.10
10/30/77	0104A	1:40	349	48.545	18.61E	-56.	.001	•051		10/30/77	0504A	5:40	369	80.425	18.60E	-71.	.027	•256	.10
10/30/77	0109A	1:45	349	49.175	18.61£	-55.	.000	•083		10/30/77	0509A	5:45	369	81.095	18.60E	-70.	.028	•278	.10
10/30/77	0114A	1:50	350	49.835	18.61E	-54.	.002	•135	•01	10/30/77	0514A	5:50	369	81.755	18.60E	-69.	.022	•261	•08
£ 10/30/77	0119A	1:55	349	50.405	18.61E	<del>-55•</del>	.001	•150	• 0 0	10/30/77	0519A	5:55	369	82.335	18.60E	-69.	.022	•272	.08
8 10/30/77	0129A	2:05	350	51.805	18.61E	-55.	.028	•107	•26	10/30/77	0524A	6:00	381	83.085	18.60E	-69.	.035	•301	.14
10/30/77		2:10	349	52.395	18.61E	-54.	.000	•134	• 0 0	10/30/77	0529A	_		83.675	18.60E	-69.	.048	•370	.13
10/30/77		2:15	349	53.135	18.61E	-53•	.001	•137	•01	10/30/77			-	84,42S	18.60E		.029	•379	.08
10/30/77	0144A	2:20	349	53.725	18.61E	<del>-</del> 53•	.001	•148	• 0 1	10/30/77			-	85.01S	18.60E		.033	•358	.09
10/30/77				54.465	18.61E	-54•	.000	•140	• 0 0	10/30/77				86.415	18.60E		.034	•413	.08
10/30/77				55.13S	18.61E	-55∙	.000	•150	• 0 0	10/30/77				86.995	18.60E		.045	•398	.11
10/30/77		2:35	349	55.79S	18.61E	- , -		•176		10/30/77				87.745	18.59E		.031	•275	.11
10/30/77		2:40	349	56.445	18.61E	-55•	.008	•280	•03	10/30/77				88.385	18.59E		.038	•380	.10
10/30/77	-	2:45	350	57.09S	18.61E	-57.	.009	•268	•03	10/30/77				89.035	18.58E		.033	•370	• 09
10/30/77				57.66S	18.61E		.009	•294	•03	10/30/77				89,695	18.51E		.034	•365	• 09
10/30/77		_		58.405	18.61E		.012	• 325	• 04	10/30/77				89.685	174.93W		.019	• 337	.06
10/30/77				58.995	18.61E		.013	• 335	• 04	10/30/77				89.055	172.57E		.017	• <b>35</b> 8	•05
10/30/77	-			59.745	18.62E		.018	•380	• 05	10/30/77				88.405	172.55E		.016	• 361	• 04
10/30/77				60.345	18.61E		.025	•421	• 06	10/70/77				87.745	172.55E		.021	• 365	.06
10/30/77	-			61.105	18.60E		.036	•431	•08	10/30/77				86.67S	172.54E		.024	•420	.06
10/30/77				61.705	18.60E		.028	•477	•06	10/30/77				86.095	172.54E		.036	•420	•09
10/30/77	-			63.105	18.60E		.026	•465	• 06	10/30/77				85.365	172.54E		.030	•558	.13
10/30/77	-			63.765	18.60E		.025	•381	•06	10/30/77				84.785	172.54E		.030	•431	• 0 7
10/30/77	- ,	_		64.425	18.60E		.023	• 366	• 06	10/30/77				83.935	172.54E		.022	•371	.06
10/30/77				65.095	18.60E		.027	•438	•06	10/30/77		1		82.735	172.54E		.027	•412	.07
10/30/77				65.765	18.60E		.029	• 395	• 07	10/30/77				82.065	172.54L		.035	•428	-08
10/30/77		_		66.335	18.60E		.034	•429	• 08	10/30/77				81.47S	172.54E		.029	• 449	•06
10/30/77	0324A	4:00	369	67.075	18.60E	<b>-</b> 59•	.041	•409	•10	10/30/77	U727A	8:03	390	80.815	172.54E	-67.	.031	•409	-08

MAXIMUM VALUES: AMBIENT OZONE= .951 CABIN OZONE= .071 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .26 TOTAL OBS IN CABIN:153
DATA SOURCE: GASP TAPE VL009, FILE 3

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE (		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO
10/30/77 10/30/77	0732A 0737A 0742 0752A 0757A 0803A 0817A 0822A 0827A 0837A 0837A 0837A 0847A 0857A 0907A 0912 0917A 0927A 0927A	HR:MN 8:08 8:13 8:18 8:23 8:28 8:33 8:48 8:53 8:58 9:03 9:18 9:28 9:28 9:33 9:48 9:53 9:48 9:50 0:08	390 390 390 390 390 390 390 390 409 409 409 409 409 409 409 409 409 4	80.085 79.465 78.715 78.105 77.345 76.765 75.895 74.665 73.995 71.955 71.955 71.955 71.955 70.015 69.295 68.725 68.005 67.435 66.125 66.125 66.125 66.125 66.125 66.125 66.135 66.135	LONG  172.54E 172.54E 172.54E 172.54E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E 172.53E	(C) -666367677071717969686968656563.	.030 .027 .024		•08	10/30/77 10/30/77	1007A 1012A 1017 1022A 1027A 1032A 1037A 1042A 1107A 1112A 1112A 1112A 112BA 112BA 113BA 113BA 113BA 1147A 1157 1202A 1202A 1202A 1212A	HR:MN 10:48 10:48 10:59 11:59 11:12 11:28 11:28 11:28 11:49 11:28	4090 4099 4099 4099 4099 4099 4099 4099	59.42S 58.81S 58.06S 57.45S 56.71S 56.03S 55.35S 54.74S 53.99S 51.99S 51.99S 50.65S 50.65S 50.65S 49.15S 49.15S 47.78S 47.09S 45.89S 45.30S 44.57S 43.23S 43.23S 42.64S 41.95S	172.53E 172.53E	C) -5351484746464142446442454955.	CABIN  .062 .047 .052 .071 .058 .056 .056 .057 .053 .069 .070 .044 .039 .041 .052 .033 .052 .019 .014 .016 .001	AMB.  .792 .838 .853 .897 .913 .921 .924 .951 .924 .721 .527 .549 .617 .940 .476 .249 .344 .205 .298	
10/30/77 10/30/77 10/30/77 10/30/77 10/30/77 10/30/77	0942A 0947A 0952A 0957	10:18 10:23 10:28 10:33	409 409 409 409	62.81S 62.07S 61.48S 60.75S	172.53E 172.53E 172.53E 172.53E 172.53E 172.53E	-61. -58. -57. -56.	.040 .044 .046 .046 .038	•598 •625 •668 •695 •730	.07 .07 .07 .07 .05	10/30/77 10/30/77 10/30/77 10/30/77 10/30/77 10/30/77 10/30/77	1222A 1227A 1232A 1237A 1242A	12:58 13:03 13:08 13:13 13:18	430 430 430 430 428	41.365 40.615 39.985 39.355 38.795	173.09E 173.27E 173.52E 173.82E 174.12E 174.37E 174.64E	-50. -52. -54. -55.	.009 .014 .007 .011 .028 .016	•298 •375 •333 •306 •521 •401 •060	.03 .04 .02 .03 .05



MAXIMUM VALUES: AMBIENT OZONE= .162 CABIN OZONE= .094 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .05 TOTAL OBS IN CABIN: 88

DATA SOURCE: GASP TAPE VL009, FILE 4 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE	(PPMV)	RATIO	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO
		HR:MN				(C)	CABIN	AMB .				HŘÍMN				(C)	CABIN	AMB.	
10/30/77	1539A	0:00	268	35.765	175.74E	-35•	.000			10/30/77				3.08N	153.85W		.000	•022	
10/30/77	1545A	0:06	328	35.025	176.28E	-51•	.000	• 062		10/30/77			-	3.58N	153.38W		.000	•017	
10/30/77	1555A	0:16	370	33.805	177.14E	-60•	.002	• 068		10/30/77	2128A	5:49	410	4.08N	152.91w	-60.	.000	•019	
10/30/77	1605A	0:26	370	32.505	178.03E	-59•	.000	• 076		10/30/77	2133A	5:54	410	4.58N	152.43W	-59.	.000	•017	
10/30/77	1615A	0:36	370	31.205	178.90E	-58•	.000	•089		10/30/77	2138A			5.08N	151.95W	-60.	.000	•019	
10/30/77	1620A			30.545	179.32E	<b>-</b> 57•	.000	•117	•00	10/30/77	214BA	6:09	410	6.08N	151.00W	-59.	.006	•023	
10/30/77				29.90S	179.73E		.000	•162	• 0 0	10/30/77			_	7.08N	150.04W		.000	•019	
10/30/77	-			29.27S	179.87W		.000	•161	• 0 0	10/30/77				B.07N	149.08W	-59.	.000	•022	
10/30/77				28.405	179.33W		.000	•132	•00	10/30/77				9.54N	147.65W	-59.	.000	.021	
10/30/77	1643A	1:04	370	27.575	178.83W	-51.	.002	•118	•02	10/30/77	2228A	6:49	410	10.03N	147.17W	-60.	.000	•021	
10/30/77	1653A	1:14	370	26.215	178.03W	-51•	.000	•018		10/30/77	2233A	6:54	410	10.52N	146.68W	-60.	.000	•024	
10/30/77		_		24.855	177.24W	-51•	.001	•017		10/30/77			410	11.01N	146.20W	-60.	.000	.020	
10/30/77	1713A	1:34	370	23.495	176.47W	-50•	.002	•017		10/30/77	2243A	7:04	410	11.51N	145.70w	-61.	.000	.020	
10/30/77				22.815	176.10W	-50•	.000	•016		10/30/77			410	12.52N	144.77W	-61.	.007	•025	
10/30/77	-	-	370	22.145	175.73W	-49.	.000	• 0 1 4		10/30/77	2303A	7:24	410	13.63N	143.94W	-60.	.003	•025	
10/30/77				21.465	175.37W	-50•	.000	-015		10/30/77	_			14.74N	143.11w	-59.	.094	•038	
10/30/77				20.805	174.96W		.003	•016		10/30/77			-	15.83N	142.28W	-58.	.021	•043	
10/30/77		_		19.545	174.09W	<del>-</del> 50•	.000	•016		10/30/77			-	16.37N	141.87W	-58.	.008	•046	
10/30/77				18.295	173.26W		.000	•018		10/30/77				16.91N	141.45W		.006	•042	
10/30/77				17.045	172.44W		.003	•014		10/30/77				17.46N	141.02W		.001	• 053	
10/30/77				15.82S	171.65W	-	.013	•013		10/30/77				18.01N	140.59W		.001	•052	
10/30/77				15.215	171.26W		.003	•016		10/30/77				19,07N	139.74W		.000	• 066	
\$ 10/30/77				14.615	170.88W		.002	•014		10/31/77				20.00N	139.00W		•006	• 069	
2 10/30/77				14.075	170.43W		.006	•015		10/31/77				21.25N	138.05W		.003	•071	
10/30/77	-			13.575	169.92W		.004	•016		10/31/77		and the second		22.33N	137.21W		.004	• 057	
10/30/77				12.595	168.88W		.001	•022		10/31/77		·		22.87N	136.78W		.007	•071	
10/30/77				11.595	167.86W		.000	•015		10/31/77				23.41N	136.35W		.003	•065	
10/30/77				10.575	166.86W		.003	•017		10/31/77				23.96N	135.91w		.004	• 059	
10/30/77					165.86W		.010	•014		10/31/77		_		24.51N	135.46W		.002	•048	
10/30/77		-			165.36W		.000	•015		10/31/77				25.60N	134.57W		.000	•038	
10/30/77					164.87W		.001	•016		10/31/77				26.67N	133.67W		.001	• 041	
10/30/77		3:49			164.38W		.004	•016		10/31/77				27.76N	132.74W		•003	• 084	
10/30/77					163.88W		.000	•016		10/31/77		-		28.80N	131.82W		.010	•087	
10/30/77					162.41W	-	.001	•014		10/31/77				29.33N	131.34W		.015	•063	
10/30/77	-				161.45W	-	.006	•016		10/31/77	_			29.84N	130.88W		.001	•059	
10/30/77		4:29			160.48W		.001	•017		10/31/77			·	30.36N	130.41W		•005	•057	
10/30/77		4:39			159.52W	_	.000	•017		10/31/77					129.92W		.000	•063	
10/30/77		4:44			159.04W		.000	•016		10/31/77					128.92W		.000	•065	
10/30/77		4:49			158.56W		.000	•017		10/31/77		-			127.90w		.008	•067	
10/30/77				1.405	158.10W		.000	•018		10/31/77					126.83W		.001	• 085	• 6
10/30/77		4:59		•905	157.62W		.003	•032		10/31/77	_				125.73W		•006	•118	.05
10/30/77			410	•10N	156.68W		.001	• 025		10/31/77		_			125.06W		.001	•121	.01
10/30/77			410	1.U9N	155.74W	<del>-</del> 59•	.000	• 026		10/31/77			4		124.35W		.005	•122	.04
10/30/77	2108A	5:29	410	2.08N	154.80W	-60•	.002	•034		10/31/77	0238A	10:59	381	36.61N	123.60W	-52.	.006	•148	.04

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .034 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) - .00 TOTAL OBS IN CABIN: 39
DATA SOURCE: GASP TAPE VL014, FILE 1

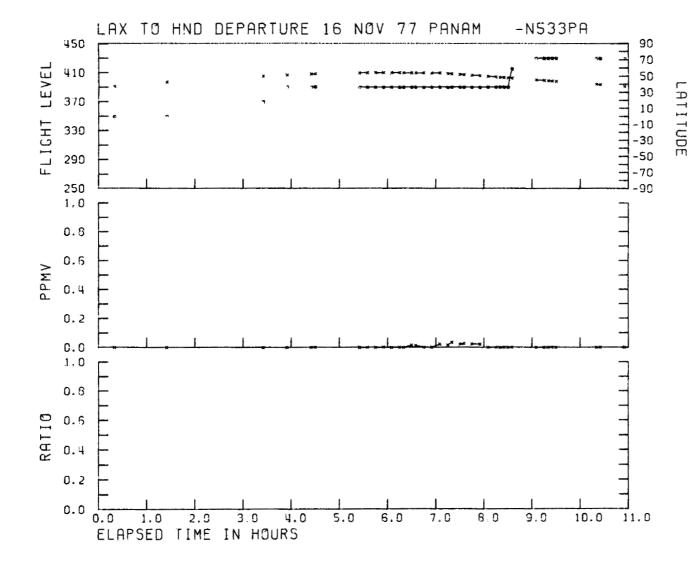
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RAT (C) CABIN AMB.	O MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
11/15/77 1646 11/15/77 1706 11/15/77 1716 11/15/77 1726 11/15/77 1731 11/15/77 1806 11/15/77 1801 11/15/77 1821 11/15/77 1936 11/15/77 1911 11/15/77 1921 11/15/77 1921 11/15/77 1926 11/15/77 1926 11/15/77 1936 11/15/77 1936 11/15/77 1936			HR:MN  11/15/77 2006 3:30 369 59.75N 11/15/77 2016 3:40 369 60.79N 11/15/77 2026 3:50 370 61.79N 11/15/77 2031 3:55 370 62.28N 11/15/77 2041 4:05 369 63.07N 11/15/77 2046 4:10 369 63.44N 11/15/77 2056 4:20 380 64.11N 11/15/77 2116 4:40 380 65.25N 11/15/77 2126 4:50 390 65.45N 11/15/77 2131 4:55 390 65.45N 11/15/77 2141 5:05 390 65.47N 11/15/77 2146 5:10 390 65.45N 11/15/77 2146 5:10 390 65.45N 11/15/77 2146 5:20 390 65.45N 11/15/77 2156 5:20 390 65.37N 11/15/77 2156 5:20 390 65.24N	
11/15/77 1941 11/15/77 1946 11/15/77 1956	3:05 370 57.74N 3:10 369 58.14N 3:20 370 58.93N	103.27W -46005 104.35W -46010 106.57W -46000	11/15/77 2221 5:45 390 64.90N 11/15/77 2241 6:05 390 64.60N 11/15/77 2246 6:10 390 64.49N 11/15/77 2256 6:20 390 64.46N	147.31W -51025 153.59W -50034 155.13W -50024 152.79W -50010

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .011 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 34 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN		ONE(PPMV) RATIO BIN AMB.	MO/DA/YR GMT	ETIM FL HR:MN	LAT LONG	TEMP (C)	OZONE (PPMV) RATIO CABIN AMB.	
11/16/77 0225 11/16/77 0235 11/16/77 0250 11/16/77 0255 11/16/77 0300 11/16/77 0305 11/16/77 0315 11/16/77 0325 11/16/77 0335 11/16/77 0355 11/16/77 0355 11/16/77 0355	HR:MN  0:15 390 64.30N 0:25 390 63.99N 0:35 390 63.45N 0:40 390 62.79N 0:50 390 62.45N 0:55 390 62.45N 0:55 390 62.10N 1:05 390 61.37N 1:15 400 60.63N 1:25 410 59.85N 1:35 410 59.07N 1:40 410 58.67N 1:45 410 58.25N 1:50 410 57.83N	156.86W -51. 159.87W -51. 162.67W -52. 163.97W -50. 165.24W -52. 166.47W -52. 167.67W -51. 169.98W -54. 172.24W -52. 174.39W -54. 176.40W -55. 177.38W -54.	001 000 000 001 000 011 000 000 000 000	11/16/77 0445 11/16/77 0450 11/16/77 0500 11/16/77 0505 11/16/77 0515 11/16/77 0525 11/16/77 0535 11/16/77 0640 11/16/77 0640 11/16/77 0640 11/16/77 0640 11/16/77 0640	2:35 410 1 2:40 410 2:45 410 1 2:55 410 1 3:05 410 1 3:25 410 1 3:25 410 1 3:35 410 1 3:50 410 4:30 4:30 4:35 430 4:35 430	54.38N 170.85 54.00N 169.92 53.67N 168.94 53.35N 167.99 52.69N 166.17 52.01N 164.42 51.30N 162.71 50.58N 161.11 49.44N 157.37 46.37N 153.41 45.98N 152.79	E -51. E -52. E -50. E -51. E -51. E -51. E -50. E -50. E -59. E -59. E -59. E -59.	.000 .002 .000 .000 .007 .000 .000 .000	
11/16/77 0405 11/16/77 0425 11/16/77 0435	1:55 410 57.42N 2:15 410 56.17N 2:25 409 55.48N	175.68E -52	000	11/16/77 0700 11/16/77 0710 11/16/77 0755	5:00 430	43.96N 149.82	E -59.	.000 .000 .000	

MAXIMUM VALUES: AMBIENT OZONE=##### CABIN OZONE= .005 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 17 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
11/16/77 1345 11/16/77 1355 11/16/77 1400 11/16/77 1405 11/16/77 1415 11/16/77 1445 11/16/77 1500 11/16/77 1505	2:40 370 39.63N 2:45 370 39.73N 2:50 370 39.81N 3:00 370 39.96N 3:30 410 40.11N 3:45 410 40.06N	173.23E -49000 175.24E -50000 176.26E -51000 177.27E -50005 179.27E -54000 174.66W -59000 171.57W -61000 170.55W -60000	11/16/77 1525 4:10 410 40.09N 11/16/77 1600 4:45 410 40.00N 11/16/77 1605 4:50 410 40.03N 11/16/77 1610 4:55 410 40.06N 11/16/77 1700 5:45 410 40.06N 11/16/77 1705 5:50 410 40.07N	160.07W -57000 159.11W -56000 158.18W -61000 151.62W -57000 148.71W -61000

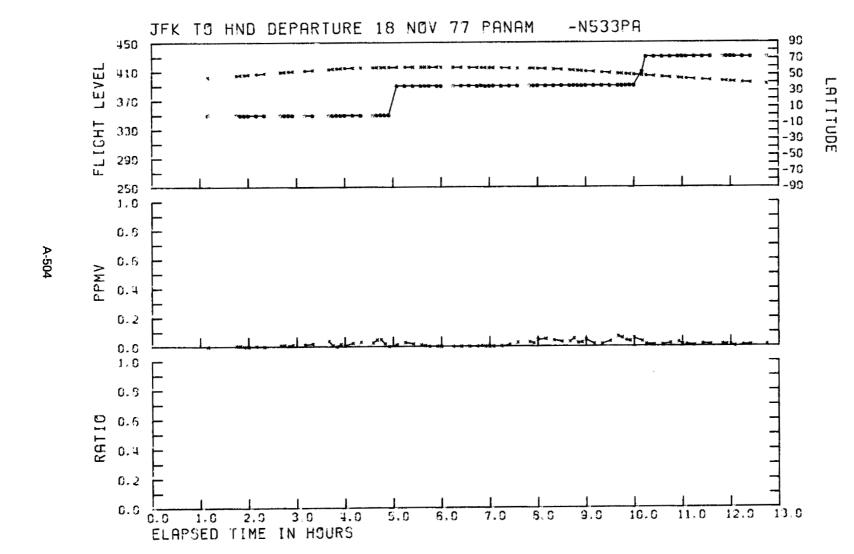


MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .034 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 38 DATA SOURCE: GASP TAPE VL014, FILE 1

HR:MN (C) CABIN AMB. HR:MN (C)	CABIN AMB.
11/16/77 2243 0:20 349 36.88N 121.39W -53000 11/17/77 0547 7:24 390 52.68N 167.28E -48	034
11/16/77 2348 1:25 349 42.30N 129.06W -55000 11/17/77 0557 7:34 390 52.05N 165.38E -48	• •024
11/17/77 0148 3:25 370 49.87N 145.72W -61000 11/17/77 0602 7:39 390 51.73N 164.46E -48	027
11/17/77 0219 3:56 390 51.22N 150.90W -67000 11/17/77 0612 7:49 390 51.08N 162.69E -49	024
11/17/77 0249 4:26 390 52.36N 156.20W -67000 11/17/77 0622 7:59 390 50.43N 161.03E -49	021
11/17/77 0254 4:31 390 52.52N 157.11W -67000 11/17/77 0632 8:09 390 49.74N 159.47E -51	• •000
11/17/77 0352 5:29 390 53.87N 167.96W -63000 11/17/77 0642 8:19 390 49.01N 158.06E -52	• •000
11/17/77 0402 5:39 390 53.99N 169.90W -59000 11/1/7/77 0647 8:24 390 48.64N 157.39E -54	000
11/17/77 0412 5:49 390 54.06N 171.98W -52000 11/17/77 0652 8:29 390 48.29N 156.75E -55	000
11/17/77 0422 5:59 390 54.10N 174.13W -52001 11/17/77 0657 8:34 390 47.94N 156.14E -54	000
11/17/77 0432 6:09 390 54.10N 176.31W -51000 11/17/77 0702 8:39 416 47.59N 155.54E -56	000
11/17/77 0442 6:19 390 54.05N 178.52W -50000 11/17/77 0732 9:09 430 45.40N 152.03E -62	000
11/17/77 0447 6:24 390 54.02N 179.56W -49000 11/17/77 0742 9:19 430 44.68N 150.96E -62	000
11/17/77 0457 6:34 390 53.97N 178.09E -49015 11/17/77 0747 9:24 430 44.32N 150.45E -64	000
11/17/T7 0502 6:39 390 53.94N 176.96E -49012 11/j7/77 0752 9:29 430 43.95N 149.93E -69	• •000
11/17/77 0512 6:49 390 53.84N 174.72E -49000 11/j7/77 0757 9:34 430 43.60N 149.42E -66	000
11/17/77 0522 6:59 390 53.70N 172.49E -50000 11/17/77 0847 10:24 430 39.91N 144.57E -60	• •000
11/17/77 0532 7:09 390 53.52N 170.28E -49021 11/17/77 0852 10:29 430 39.53N 144.08E -62	• •000
11/17/77 0542 7:19 390 52.98N 168.25E -49016 11/17/77 0922 10:59 430 37.05N 141.34E -62	000

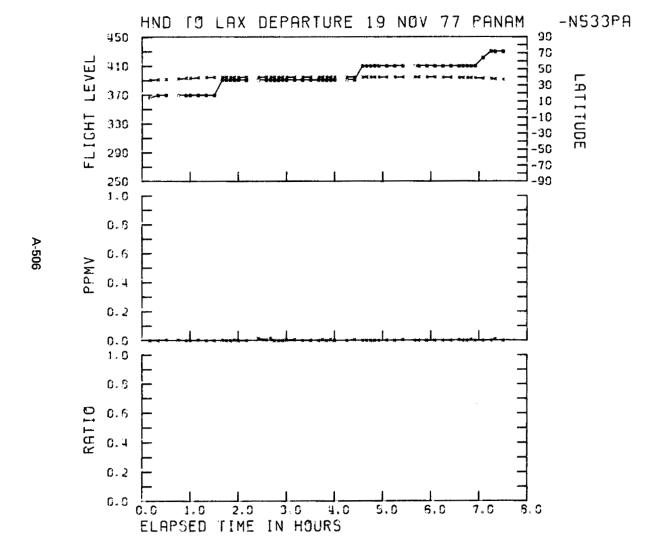
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .050 RATIO (LIMITED TO AMB. DZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 76 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (F	RATIO
11/17/77	1242	0:24	330	38.64N	146.03E	-44.	.000		11/17/77	1852	6:34	390	54.80N	129.12W	-50.	.021	
11/17/77	1252	0:34	330	39.76N	147.53E	-41.	.011		11/17/77	1857	6:39	390	54.66N	127.88W	-49.	.013	
11/17/77	1302	0:44	330	40.88N	149.10E	-42.	.002		11/17/77	1907	6:49	390	54.33N	125.48W	-48.	.010	
11/17/77	1312	0:54	330	41.96N	150.77E	-42.	.000		11/17/77	1917	6:59	390	53.97N	123.12W	-47.	.023	
11/17/77	1327	1:09	350	43.52N	153.49E	-48.	.000		11/17/77	1927	7:09	390	53.75N	120.73W	-45.	.017	
11/17/77	1332	1:14	350	44.03N	154.44E	-48.	.000		11/17/77	1937	7:19	390	53.58N	118.36W	-48.	.010	
11/17/77	1337	1:19	350	44.53N	155.40E	-48.	.006		11/17/77	1942	7:24	390	53.48N	117.18W	-49.	.011	
11/17/77	1342	1:24	350	45.03N	156.38E	-49.	.000		11/17/77		7:29	390	53.39N	115.99W	-49.	.000	
11/17/77	1352	1:34	350	45.98N	158.40E	-50.	.000		11/17/77	1952	7:34	390	53.29N	114.80W	-47.	.016	
11/17/77	1402	1:44	350	46.92N	160.47E	-49.	.000		11/17/77	1957	7:39	390	53.18N	113.62W	-48.	.024	
11/17/77		-	-	47.88N	162.51E		.000		11/17/77				52.93N	111.30W		.021	
11/17/77				48.78N	164.56E		•000		11/17/77				52.64N	109.03W		.028	
11/17/77				49.18N	165.53E		.000		11/17/77				52.30N	106.79W		.034	
11/17/77				49.56N	166.48E		.000		11/17/77				51.94N	104.63W		•026	
11/17/77				49.95N	167.48E		.000		11/17/77				51.74N	103.54W		.042	
11/17/77				50.31N	168.44E		•000		11/17/77				51.54N	102.47W		.016	
11/17/77				51.02N	170.36E		.002		11/17/77				51.32N	101.42W		.022	
11/17/77	_			51.88N	172.12E		•000		11/17/77				51.10N	100.37W		.013	
11/17/77				52.69N	173.94E		.000		11/17/77				50.61N	98.30W		.013	
11/17/77				53.41N	175.86E		.021		11/17/77				49.83N	95.29W		.010	
11/17/77		-		53.75N	176.86E		.011		11/17/77				48.97N	92.41W		.021	
11/17/77				54.08N	177.89E		•006		11/17/77				48.66N	91.44W		.016	
ਨੂੰ 11/17/77	1537			54.42N	178.93E		.018		11/17/77				48.34N	90.49W		.001	
8 11/17/77				54.75N	179.99W		.002		11/17/77				48.02N	89.55W		.010	
11/17/77				55.07N	178.90W		.000		11/17/77				47.36N	87.72W		.007	
11/17/77		_		55.70N	176.64W		.007		11/17/77				46.67N	85.91W		•006	
11/17/77				56.29N	174.27W		.014		11/17/77				45.94N	84.14W		.014	
11/17/77				56.86N	171.79W		.000		11/17/77				44.81N	81.58W		.001	
11/17/77				57.39N	169.20W		•002		11/17/77	_			44.39N	80.77W		.019	
11/17/77				57.67N	167.88W		.000		11/17/77		_		43.91N	80.06W		.027	
11/17/77				58.19N	165.12W		.000		11/17/77		_		42.89N	78.77W		•036	
11/17/77				58.64N	162.23W		.000		11/17/77				42.33N	76.94W		.020	
11/17/77				58.58N	153.21W		•000		11/17/77				41.75N	75.19W		.027	
11/17/77	-			58.05N	147.26W		.000		11/17/77		_		41.36N	74.06W		.012	
11/17/77				56.22N	136.18W		.000		11/17/77		_		41.51N	74.17W		.042	
11/17/77				55.63N	133.68W		.004		11/17/77				41.39N	74.22W		.000	
11/17/77				55.05N	131.25W		.031		11/17/77		_		41.51N	74.18W		.050	
11/17/77	1847	6:29	390	54.94N	130.36W	-48.	.009		11/17/77	2347	11:29	<b>~10</b>	41.19N	74.13W	-29.	•009	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .068 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 81 DATA SOURCE: GASP TAPE VL014, FILE 1

	OZONE(PPMV) RATIO CABIN AMB.
11/18/77 1755 1:10 350 46.81N 84.10W -46000 11/18/77 2350 7:05 390 58.64N 162.33W -55.	.000
11/18/77 1830 1:45 350 49.41N 89.61W -51007 11/19/77 0000 7:15 390 58.47N 164.99W -51.	•002
11/18/77 1835 1:50 350 49.77N 90.46W -52006 11/19/77 0010 7:25 390 58.25N 167.65W -50.	.012
11/18/77 1840 1:55 350 50.12N 91.32W -52000 11/19/77 0020 7:35 390 57.99N 170.31W -50.	•028
11/18/77 1845 2:00 350 50.47N 92.22W -54000 11/19/77 0035 7:50 390 57.86N 174.30W -47.	.030
11/18/77 1855 2:10 350 51.15N 93.98W -54003 11/19/77 0040 7:55 390 57.79N 175.64W -46.	.022
11/18/77 1905 2:20 350 51.95N 95.80W -58000 11/19/77 0045 8:00 390 57.70N 176.98W -46.	•046
11/18/77 1925 2:40 350 53.44N 99.59W -59009 11/19/77 0055 8:10 390 57.48N 179.65W -46.	•051
11/18/77 1930 2:45 350 53.80N 100.60W -59011 11/19/77 0105 8:20 390 56.91N 178.13E -47.	.042
11/18/77 1935 2:50 350 54.13N 101.64W -59006 11/19/77 0115 8:30 390 56.23N 175.97E -47.	.031
11/18/77 1940 2:55 350 54.42N 102.71W -58011 11/19/77 0125 8:40 390 55.52N 173.90E -46.	.033
11/18/77 1955 3:10 350 55.27N 105.96W -56015 11/19/77 0130 8:45 390 55.15N 172.90E -47.	• 054
11/18/77 2005 3:20 349 55.88N 108.17W -54020 11/19/77 0135 8:50 390 54.78N 171.92E -48.	•024
11/18/77 2025 3:40 350 57.10N 112.57W -53038 11/19/77 0140 8:55 390 54.40N 170.97E -48.	.028
11/18/77 2030 3:45 350 57.47N 113.63W -51008 11/19/77 0145 9:00 390 54.01N 170.03E -46.	.046
11/18/77 2035 3:50 350 57.82N 114.71W -52000 11/19/77 0155 9:10 390 53.34N 168.06E -46.	•017
11/18/77 2040 3:55 350 58.17N 115.81W -51017 11/19/77 0205 9:20 390 52.67N 166.23E -46.	•017
11/18/77 2045 4:00 350 58.50N 116.92W -51006 11/19/77 0215 9:30 390 51.97N 164.43E -46.	• 035
11/18/77 2055 4:10 350 58.72N 119.45W -51024 11/19/77 0225 9:40 390 51.25N 162.72E -48.	.068
11/18/77 2105 4:20 350 58.85N 122.05W -51032 11/19/77 0230 9:45 390 50.88N 161.90E -48.	.058
11/18/77 2120 4:35 350 59.14N 125.82W -52026 11/19/77 0235 9:50 390 50.52N 161.10E -48.	.041
11/18/77 2125 4:40 350 59.23N 127.05W -51046 11/19/77 0240 9:55 390 50.15N 160.31E -47.	.036
11/18/77 2130 4:45 350 59.31N 128.30W -54049 11/19/77 0245 10:00 390 49.78N 159.56E -48.	.056
\$\frac{11}{18}/77 2135 4:50 350 59.38N 129.55W -57018  \text{11}/\frac{1}{19}/77 0255 10:10 409 49.03N 158.10E -49.	.035
11/18/77 2140 4:55 350 59.44N 130.80W =56000 11/j9/77 0300 10:15 430 48.64N 157.39E =51.	.014
11/18/77 2150 5:05 390 59.52N 133.24W -59012 11/19/77 0310 10:25 430 47.90N 156.07E -51.	•008
11/18/77 2200 5:15 390 59.55N 135.59W -66028 11/j9/77 0320 10:35 430 47.14N 154.77E -51.	.010
11/18/77 2210 5:25 390 59.54N 137.98W -66017	.020 .030
11/18/77 2225 5:40 390 59.53N 141.48W -67005 11/19/77 0345 11:00 430 45.25N 151.80E -51.	.014
11/18/77 2230 5:45 390 59.53N 142.64W -67000 11/19/77 0350 11:05 430 44.87N 151.24E -52.	.013
11/18/77 2240 5:55 390 59.50N 144.94W -66001 11/19/77 0400 11:15 430 44.16N 150.22E -56.	.006
11/18/77 2245 6:00 390 59.47N 146.10W -66000 11/19/77 0410 11:25 430 43.49N 149.09E -54.	.016
11/18/77 2300 6:15 390 59.32N 149.72W -66000 11/19/77 0420 11:35 430 42.83N 147.95E -54.	.011
11/18/77 2310 6:25 390 59.16N 152.15W -66000 11/19/77 0435 11:50 430 41.85N 146.32E -54.	.014
11/18/77 2320 6:35 390 58.95N 154.58W -67000 11/19/77 0440 11:55 430 41.51N 145.78E -54.	.011
11/18/77 2330 6:45 390 58.73N 157.04W -66001 11/19/77 0445 12:00 430 41.17N 145.25E -55.	.011
11/18/77 2335 6:50 390 58.73N 158.34W -65004 11/19/77 0450 12:05 430 40.83N 144.72E -55.	.001
11/18/77 2340 6:55 390 58.71N 159.63W -64000 11/19/77 0500 12:15 430 40.15N 143.70E -54.	•008
11/18/77 2345 7:00 390 58.69N 160.97W -58000 11/19/77 0510 12:25 430 39.48N 142.72E -56.	.008
11/19/77 0530 12:45 430 37.95N 141.08E -56.	.011



HNO TO LAX (PAGE 1 OF 1)

DEPARTURE: 19 NOV 77

AIRCRAFT:PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .017 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 55 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PF	RATIO
11/19/77	0824	0:10	366	36.47N	143.76E	-49.	.000		11/19/77	1204	3:50	391	40.09N	166.66W	-46.	.000	
11/19/77	0834	0:20	369	37.03N	145.86E	-48.	.000		11/19/77	1209	3:55	391	40.10N	165.57W	-46.	.006	
11/19/77	0844	0:30	370	37.55N	147.99E	-47.	.005		11/19/77	1214	4:00	391	40.11N	164.49W	-46.	.000	
11/19/77	0859	0:45	370	38.31N	151.27E	-48.	.005		11/19/77	1229	4:15	391	40.05N	161.28W	-47.	•000	
11/19/77	0909	0:55	369	38.81N	153.48E	-48.	.000		11/19/77	1239	4:25	391	40.03N	159.18W	-47.	•005	
11/19/77	0914	1:00	370	39.04N	154.59E	-49.	.000		11/19/77	1249	4:35	410	40.09N	157.11W	-52•	.000	
11/19/77	0924	1:10	370	39.47N	156.82E	-49.	•005		11/19/77	1254	4:40	410	40.10N	156.07W	-51.	.000	
11/19/77	0934	1:20	370	39.86N	159.09E	-49.	.000		11/19/77	1259	4:45	410	40.11N	155.05W	-52.	.000	
11/19/77	0944	1:30	370	40.05N	161.41E	-49.	.000		11/19/77		4:50	410	40.10N	154.04W	-52.	.000	
11/19/77	0954	1:40	391	40.10N	163.74E	-52•	.004		11/19/77	1309	4:55	410	40.09N	153.03W	-54.	.000	
11/19/77	0959	1:45	391	40.11N	164.91E	<b>-51</b> •	.000		11/19/77	1319	5:05	410	40.04N	151.07W	-56.	.001	
11/19/77	1004	1:50	391	40.10N	166.08E	-52•	•000		11/19/77	1329			40.03N	149.15W	-58.	.000	
11/19/77	1009	1:55	391	40.08N	167.25E	-51.	.005		11/19/77	1339	5:25	410	40.09N	147.22W	-59.	.005	
11/19/77	1014	2:00	391	40.06N	168.42E	-51.	.000		11/19/77	1354	5:40	410	40.10N	144.36W	-63.	.000	
11/19/77	1024	2:10	391	40.03N	170.75E	-51.	.000		11/19/77	1359	5:45	410	40.09N	143.38W	-64.	.000	
11/19/77	1039	2:25	391	40.10N	174.20E	-51.	.015		11/19/77	1409	5:55	410	40.05N	141.43W	-64.	.000	
11/19/77	1049	2:35	391	40.10N	176.49E	-50.	•005		11/19/77	1419	6:05	410	40.00N	140.00W	-65.	.000	
11/19/77	1054	2:40	391	40.08N	177.63E	-50•	.017		11/19/77	1429	6:15	410	39.85N	137.69W	-65.	.000	
11/19/77	1059	2:45	391	40.04N	178.78E	-48.	.000		11/19/77	1439	6:25	410	39,69N	135.81W	-68.	.000	
11/19/77	1104	2:50	391	40.00N	179.93E	-48.	.000		11/19/77	1449	6:35	410	39.49N	133.87W	-67.	.004	
11/1 <del>9</del> /77	1109	2:55	391	40.04N	178.93W	-47.	.000		11/19/77	1454	6:40	410	39.38N	132.94W	-68.	.000	
11/19/77	1114	3:00	391	40.07N	177.79W	-48.	.004		11/19/77	1459			39.27N	132.01W	-66.	.000	
11/19/77 5 11/19/77 11/19/77	1124	3:10	391	40.11N	175.51W	-46.	•006		11/19/77	1504	6:50	410	39.15N	131.09W	-67.	.006	
9 11/19/77	1134	3:20	391	40.09N	173.25W	-45.	.000		11/19/77	1509	6:55	410	39.02N	130.15W	-67.	.000	
11/19/77	1144	3:30	391	40.04N	171.03W	-45.	.001		11/19/77	1519	7:05	421	38.54N	128.30W	-69.	.000	
11/19/77	1154	3:40	391	40.04N	168.84W	-46.	.000		11/j9/77	1529	7:15	430	38.03N	126.50W	-65.	.000	
11/19/77	1159	3:45	391	40.07N	167.74W	-45•	•006		11/19/77	1534	7:20	430	37.73N	125.64W	-67.	.009	
									11/19/77	1544	7:30	430	37.01N	124.06W	-67.	.000	

A-508

LATITUDE

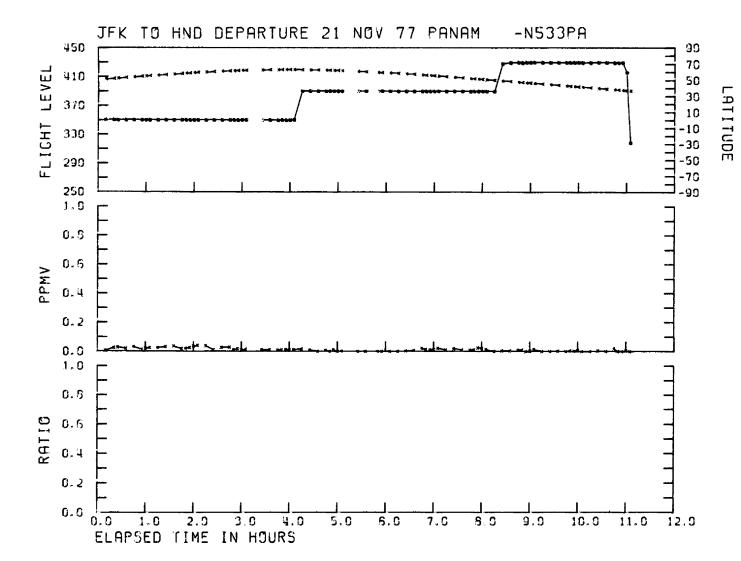
LAX TO HND (PAGE 1 OF 1) DEPARTURE: 19 NOV 77 AIRCRAFT: PANAM -N533PA

MAXIMUM VALUES: AMBIENT DZONE=\*\*\*\*\* CABIN DZONE= .078 RATIO (LIMITED TO AMB. DZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 74
DATA SOURCE: GASP TAPE VL014, FILE 1

	0			,													
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPA CABIN AN	RATIO
11/19/77	2040	0:10	350	35.54N	120.44W	-56•	.001		11/20/77				54.04N	171.03W		.074	
11/19/77	2050	0:20	350	36.35N	121.47W	-56.	.000		11/20/77	0205	5:35	.391	54.09N	173.39W	-45.	.067	
11/19/77	2100	0:30	350	37.08N	122.56W	-56.	.000		11/20/77	0215	5:45	391	54.10N	175.73W	-44.	.078	
11/19/77	2110	0:40	350	37.43N	123.90W	-56.	.000		11/20/77	0225	5:55	391	54.06N	178.08W	-45.	.063	
11/19/77	2115	0:45	350	37.58N	124.60W	-56.	.000		11/20/77	0230	6:00	391	54.03N	179.25W	-44.	.040	
11/19/77	2121	0:51	350	37.72N	125.30W	-57.	.000		11/20/77	0235	6:05	391	54.00N	179.98W	-46.	.037	
11/19/77	2131	1:01	370	38.08N	126.65W	-62.	.000		11/20/77	0240	6:10	391	53,98N	178.39E	-46.	.028	
11/19/77		1:10	370	38.46N	128.00W	-61.	.000		11/20/77	0245			53.94N	177.22E	-45.	.020	
11/19/77		1:20	370	38.83N	129.35W	-61.	.000		11/20/77	0255	6:25	391	53.85N	174.90E	-46.	.061	
11/19/77		1:25	370	39.01N	130.02W	-61.	.000		11/20/77	0305	6:35	391	53.71N	172.59E	-45.	.070	
11/19/77		1:35	370	39.73N	131.06W	-62•	.011		11/20/77	0315	6:45	391	53.53N	170.35E	-45.	.031	
11/19/77		1:45	370	40.43N	132.09W	-62.	.000		11/20/77	0330	7:00	391	52.71N	167.36E	-48.	.036	
11/19/77				41.51N	133.79W	-61.	.011		11/20/77	0335	7:05	391	52.40N	166.42E	-47.	.039	
11/19/77		2:05	370	41.87N	134.37W	-61.	.000		11/20/77	0340	7:10	410	52.09N	165.49E	-49.	•064	
11/19/77		2:15	370	42.58N	135.55W	-61.	.000		11/20/77	0350			51.46N	163.70E	-49.	.035	
11/19/77		2:25	370	43.31N	136.82W	-60.	.009		11/20/77	0400	7:30	410	50.81N	162.00E	-50.	.012	
11/19/77		2:35	370	44.02N	138.12W	-59.	.000		11/20/77	0410			50.14N	160.32E	<del>-</del> 50.	.037	
11/19/77		2:45	370	44.75N	139.51W	-58.	•000		11/20/77	0425	7:55	410	48.99N	158.04E	-52.	.043	
11/19/77		2:50	370	45.11N	140.23W	-59.	.008		11/20/77	0430	8:00	410	48.60N	157.32E	-52.	.000	
11/19/77		2:55	370	45.46N	140.98W	-59.	.000		11/20/77	0435	8:05	410	48.21N	156.61E	<b>-</b> 52∙	.027	
11/19/77		3:00	370	45.80N	141.74W	-59.	.000		11/20/77	0445	8:15	410	47.43N	155.26E	-52.	.036	
11/19/77	2340	3:10	370	46.49N	143.32W	-59.	.000		11/20/77	0455	8:25	410	46.65N	153.96E	-53.	.007	
g 11/19/77	2350	3:20	370	47.17N	144.97W	-58.	.000		11/20/77	0505	8:35	410	45.86N	152.72E	-51.	.021	
8 11/20/77		3:50	370	49.14N	150.39W	-54.	.002		11/20/77	0515	8:45	410	45.05N	151.51E	-49.	•022	
11/20/77		3:55	390	49.48N	151.35W	-53.	.012		11/20/77	0520	8:50	410	44.64N	150.91E	-49.	.012	
11/20/77	0030	4:00	390	49.81N	152.32W	-54.	.010		11/20/77	0525	8:55	410	44.23N	150.33E	-48.	.014	
11/20/77		4:05	390	50.13N	153.30W	-53.	.016		11/20/77	0530	9:00	410	43.84N	149.71E	-47.	.015	
11/20/77		4:10	390	50.44N	154.30W	-52.	.011		11/20/77	0535	9:05	410	43.48N	149.07E	-49.	•009	
11/20/77		4:15	391	50.75N	155.32W	-52.	.015		11/20/77	0545	9:15	410	42.76N	147.82E	-49.	.007	
11/20/77		4:25	391	51.34N	157.41W	-50.	.020		11/20/77	0555			42.02N	146.59E	<b>-51</b> .	.017	
11/20/77		4:35	391	51.89N	159.57W	-49.	.002		11/20/77	0605	9:35	410	41.28N	145.41E	-52.	.004	
11/20/77		4:45	391	52.42N	161.74W	-49.	.037		11/20/77	0615	9:45	410	40.56N	144.31E		.018	
11/20/77		4:55	391	52.93N	164.04W	-46.	.047		11/20/77				40.20N	143.78E		.007	
11/20/77		5:00	391	53.16N	165.18W	-46.	.025		11/20/77	0625			39.84N	143.24E		•002	
11/20/77		5:05	391	53.38N	166.32W	-46.	.030		11/20/77	0630	10:00	410	39.48N	142.73E	-56.	.001	
11/20/77		5:10	391	53.59N	167.51W	-46.	.039		11/20/77	0645	10:15	410	38.41N	141.25E	<del>-</del> 54.	.004	
11/20/77	0145	5:15	391	53.79N	168.66W	-45.	.050		11/20/77	0655	10:25	410	37.47N	140.68E	-56.	.000	

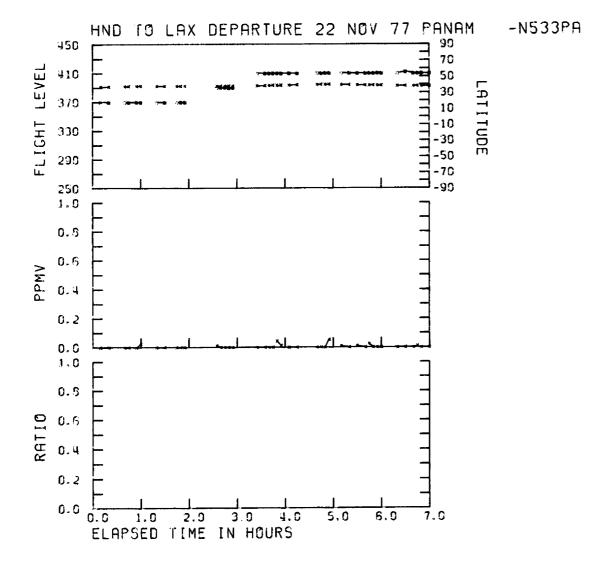
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .064 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 70 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO
11/20/77	1226	0:10	331	35.93N	143.75E	-47.	.000		11/20/77	1757	5:41	370	43.49N	145.52W	-54.	•005	
11/20/77				37.32N	147.79E		.000		11/20/77				43.59N	144.55W		.005	
11/20/77	1256	0:40	331	37.97N	149.88E	-47.	.000		11/20/77	1812	5:56	370	43.77N	142.54W	-56.	.002	
11/20/77	1301	0:45	331	38.25N	150.98E	-48.	.003		11/20/77	1822	6:06	370	43.90N	140.62W	-56.	•005	
11/20/77	1306	0:50	331	38.50N	152.06E	-47.	.000		11/20/77	1832	6:16	370	44.13N	138.67W	-58.	.000	
11/20/77	1311	0:55	331	38.75N	153.16E	-47.	.000		11/20/77	1842	6:26	370	44.38N	136.64W	-59.	.000	
11/20/77	1316	1:00	331	38.98N	154.28E	-47.	.000		11/20/77	1847	6:31	370	44.49N	135.63W	-58.	.000	
11/20/77	1326	1:10	331	39.42N	156.53E	-47.	.000		11/20/77	1852	6:36	370	44.59N	134.63W	<b>-58</b> •	.007	
11/20/77	1346	1:30	331	40.05N	161.11E	-47.	.000		11/20/77	1902	6:46	370	44.78N	132.57W	-57.	•000	
11/20/77	1401	1:45	330	40.11N	164.60E	-49.	.000		11/20/77	1917	7:01	370	45.09N	129.35W	-56.	.001	
11/20/77	1406	1:50	331	40.10N	165.73E	-49.	.000		11/20/77	1927	7:11	370	45.43N	127.25W	-52.	•000	
11/20/77	1411	1:55	331	40.09N	166.87E	-50.	.000		11/20/77	1932	7:16	370	45.50N	126.14W	-52.	.001	
11/20/77		2:00	350	40.06N	167.99E	-50.	.000		11/20/77		7:26	393	45.41N	123.86W	-53.	.014	
11/20/77		2:30	350	40.09N	174.66E		.000		11/20/77				45.28N	121.64W		.064	
11/20/77	1456	2:40	350	40.07N	176.84E	<del>-</del> 51•	.000		11/20/77	2002	7:46	410	45.11N	119.50W	-54.	.011	
11/20/77		2:45	350	40.05N	177.94E	-52•	.003		11/20/77	2012	7:56	410	44.91N	117.35W	-52.	.014	
11/20/77		2:50	350	40.01N	179.02E	-52•	.000		11/20/77	5055	8:06	410	44.64N	115.25W	-52.	.039	
11/20/77	1511	2:55	350	39.97N	179.89¥	-53.	.033		11/20/77	2032	8:16	410	44.29N	113.12W	-51.	.036	
11/20/77		3:00	350	40.01N	178.83W	-54•	.000		11/20/77	2037			44.14N	112.07W	<b>-50</b> .	•034	
11/20/77		3:10	350	40.06N	176.66W		.000		11/20/77				44.15N	111.00W		•025	
11/20/77		3:20	350	40.06N	174.45W	-47.	.000		11/20/77	2052	8:36	410	44.15N	108.85W	-50.	•037	
11/20/77	1546			40.02N	172.23W		.003		11/20/77				44.10N	106.67W		.035	
₹ 11/20/77				39.94N	170.03W		.007		11/20/77				44.11N	104.52W		•036	
= 11/20/77				40.08N	168.98W		.002		11/20/77				44.08N	102.38W		•036	
11/20/77				40.21N	167.94W		.021		11/20/77				44.00N	100.23W		•027	
11/20/77		-	-	40.34N	166.90W		.013		11/20/77				43.89N	98.10W		.042	
11/20/77				40.45N	165.87W		•009		11/20/77				43.81N	96.99W		.047	
11/20/77	_			40.66N	163.78W		.014		11/20/77				43.68N	95.89W		.021	
11/20/77				40.83N	161.68W		.022		11/20/77				43.36N	93.82W		.000	
11/20/77			_	41.03N	159.59W		.031		11/20/77				43.07N	91.70W		.000	
11/20/77				41.59N	157.17W		.022		11/20/77		_		43.00N	89.59W		•000	
11/20/77				42.15N	154.41W		.029		11/20/77				42.83N	86.51W		•000	
11/20/77				42.52N	152.41W		.022		11/20/77		-		42.67N	84.48W		•000	
11/20/77	-			42.84N	150.44W		.012		11/20/77				42.58N	83.50W		.000	
11/20/77	1747	5:31	370	43.26N	147.49W	-50•	.005		11/20/77	2302	10:46	409	42.37N	81.53W	-68.	.001	



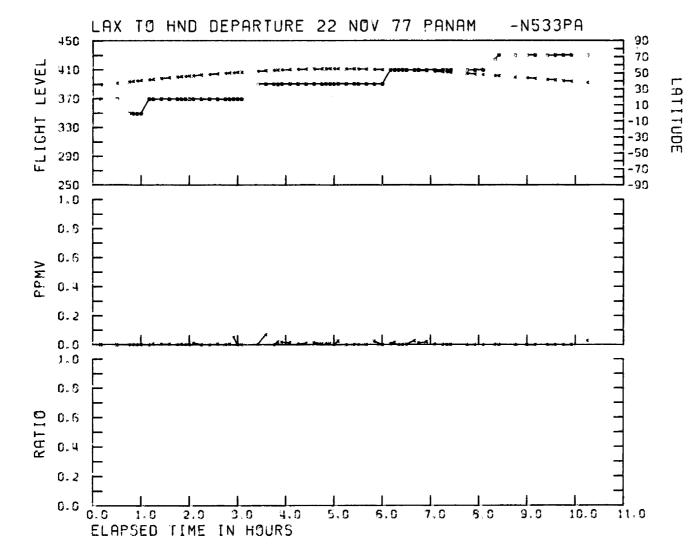
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .040 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 84
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPM) CABIN AME	
11/21/77	1821	0:10	350	51.03N	85.57W	-46.	.006		11/22/77	0006	5:55	390	59.37N	171.67W	-63.	.000	
11/21/77				51.84N	87.29W		.026		11/22/77		6:05	390	58.89N	174.08W		.000	
11/21/77		0:25	350	52.22N	88.14W	-48.	.030		11/22/77	0026	6:15	390	58.36N	176.44W	-61.	.000	
11/21/77				52.97N	89.89W	-49.	.020		11/22/77		6:25	390	57.79N	178.75W	-57.	•004	
11/21/77	1856			53.71N	91.74W		.033		11/22/77		6:35	390	57.17N	179.00E	-55•	.006	
11/21/77	1906			54.43N	93.69W		.013		11/22/77				56.50N	176.80E		.021	
11/21/77				54.77N	94.67W		.022		11/22/77				56.16N	175.75E		.014	
11/21/77				55.11N	95.66W		.026		11/22/77				55.81N	174.72E		.012	
11/21/77				55.77N	97.68W		.025		11/22/77				55.44N	173.70E		.012	
11/21/77				56.45N	99.74W		.032		11/22/77				55.07N	172.70E		•022	
11/21/77				57.16N	101.79W		.036		11/22/77				54.32N	170.77E		.010	
11/21/77		_		57.93N	103.80W		.018		11/22/77				53.61N	168.82E		.019	
11/21/77		-		58.31N 58.68N	105.88W		.021 .025		11/22/77				52.92N	166.89E		.010	
11/21/77				59.04N	106.94W		.033		11/22/77				52.21N 51.86N	165.05E 164.17E		.010	
11/21/77 11/21/77				59.40N	108.02W		.040		11/22/77				51.50N	163.31E		.011 .025	
11/21/77				59.81N	110.50W		.039		11/22/77				51.14N	162.47E		•023	
11/21/77				60.32N	112.99W		.011		11/22/77				50.77N	161.65E		.014	
11/21/77				60.83N	115.54W		.028		11/22/77				50.03N	160.06E		.000	
11/21/77				61.29N	118.13W		.029		11/22/77				49.25N	158.53E		.005	
11/21/77				61.51N	119.47W		.011		11/22/77				48.49N	157.12E		.004	
11/21/77	2106	2:55	350	61.71N	120.88W	-50.	.018		11/22/77	0256	8:45	430	47.72N	155.76E		.010	
§ 11/21/77	2111	3:00	350	61.89N	122.23W	-52•	.010		11/22/77	0301	8:50	430	47.35N	155.12E	-55.	.010	
ซี 11/21/77	2116			62.06N	123.64W		.014		11/22/77		8:55	430	46.96N	154.47E	-56.	.000	
11/21/77				62.58N	129.45W		.011		11/22/77				46.57N	153.84E	-55.	.001	
11/21/77				62.77N	132.50W		.011		11/22/77				46.19N	153.23E		.014	
11/21/77				62.90N	135.54W		.009		11/22/77				45.41N	152.04E		.000	
11/21/77				62.93N	137.09W		.010		11/22/77				44.63N	150.89E		•000	
11/21/77		-		62.96N	138.66W		.013		11/22/77				43.85N	149.78E		.003	
11/21/77				62.96N 62.95N	140.26W 141.82W		010ء		11/22/77				43.09N	148.71E		.000	
11/21/77				62.77N	144.83W		.013 .016		11/ <sub>2</sub> 2/77 11/ <sub>2</sub> 2/77				42.72N 42.34N	148.19E 147.68E		.005 .003	
11/21/77				62.67N	147.75W		.010		11/22/77				41.95N	147.15E		•005	
11/21/77				62.51N	150.56W		.000		11/22/77		10:05			146.66E		•000	
11/21/77		:	-	62.29N	153.46W		.008		11/22/77		10:15			145.68E		•000	
11/21/77				62.16N	154.88W		.000		11/22/77		10:25			144.69E		.005	
11/21/77	2306			62.01N	156.28W		.011		11/22/77		10:35			143.73E		•000	
11/21/77				61.85N	157.64W		.000		11/22/77		10:45			142.76E		.020	
11/21/77				61.68N	158.98W		.002		11/22/77		10:50			142.28E		•000	
11/21/77				60.87N	164.22W		.000		11/22/77				37.67N	141.79E		.000	
11/21/77				60.38N	166.76W		.000		11/22/77		11:00			141.27E		.004	
11/22/77					170.38W		.000		11/22/77		11:05			140.79E		.000	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .053 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 42 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TE		ATIO MOZNAZYE	GMT	ETIM HR:MN	FL LAT	LONG	TEMP	OZONE (PP	)
11/22/77 0911	0:10 370	37.25N	151.88E -5	000	11/22/77	1256	3:55 4	10 38.9	5N 160.78V	-48.	.012	
11/22/77 0921	0:20 370	37.51N	154.06E -5	000	11/22/77	1306	4:05 4	10 39.1	7N 158.77V	-48.	.000	
11/22/77 0941	0:40 370	37.90N	158.49E -5	000	11/22/77	1316	4:15 4	10 39.4	2N 156.75V	-49.	.000	
11/22/77 0946	0:45 370	37.97N	159.59E -5	000	11/22/77	1341	4:40 4	10 39.8	9N 151.65V	-57.	.000	
11/22/77 0956	0:55 370	38.06N	161.79E -5	000	11/22/77	1346	4:45 4	10 39.9	6N 150.63W	-56.	•000	
11/22/77 1001	1:00 370	38.09N	162.89E -5	025	11/22/77	1351	4:50 4	10 39.9	7N 149.58V	-57.	.001	
11/22/77 1021	1:20 370	38.08N	167.22E -5	000	11/22/77	1356	4:55 4	10 39.9	IN 148.59V	-59.	.053	
11/22/77 1031	1:30 370	38.02N	169.33E -5	000	11/22/77	1411	5:10 4	10 39.6	7N 145.58V	-58.	.010	
11/22/77 1046	1:45 370	38.08N	172.46E -4	000	11/22/77	1421	5:20 4	10 39.4	7N 143.64V	-59.	.000	
11/22/77 1051	1:50 370	38.09N	173.50E -4	000	11/22/77	1431	5:30 4	10 39.2	3N 141.70V	-59.	.010	
11/22/77 1056	1:55 370	38.10N	174.53E -4	000	11/22/77	1441	5:40 4	10 38.9	BN 139.74V	-56.	.000	
11/22/77 1136	2:35 390	38.08N	177.26W -4	012	11/22/77	1446	5:45 4	10 38.9	2N 138.76V	-57.	.023	
11/22/77 1141	2:40 390	38.10N	176.24W -4	000	11/22/77	1451	5:50 4	10 38.8	5N 137.78	-56.	.001	
11/22/77 1146	2:45 390	38.10N	175.20W -4	000	11/22/77	1456	5:55 4	10 38.7	7N 136.81W	-56.	.000	
11/22/77 1151	2:50 390	38.10N	174.15W -49	000	11/22/77	1501	6:00 4	10 38.6	9N 135.87W	-57.	.000	
11/22/77 1156	2:55 390	38.09N	173.10W -4	000	11/22/77	1521	6:20 4	10 38.2	8N 132.07W	-59.	.000	
11/22/77 1226	3:25 410	38.40N	166.93W -4	000	11/22/77	1531	6:30 4	12 38.0	6N 130.16W	-56.	.000	
11/22/77 1236	3:35 410	38.62N	164.88W -4	000	11/22/77	1541	6:40 4	10 37.9	5N 128.20V	-56.	.000	
11/22/77 1241	3:40 410	38.72N	163.85W -4"	000	11/22/77	1546	6:45 4	10 37.9	IN 127.21W	-56.	.009	
11/22/77 1246	3:45 410	38.80N	162.82W -4	000	11/22/77	1551	6:50 4	10 37.8	6N 126.19W	-56.	.000	
11/22/77 1251	3:50 410	38.88N	161.79W -4	043	11/22/77	1601	7:00 4	10 37.6	5N 124.24k	-56.	.000	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .069 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 68
DATA SOURCE: GASP TAPE VL014, FILE 1

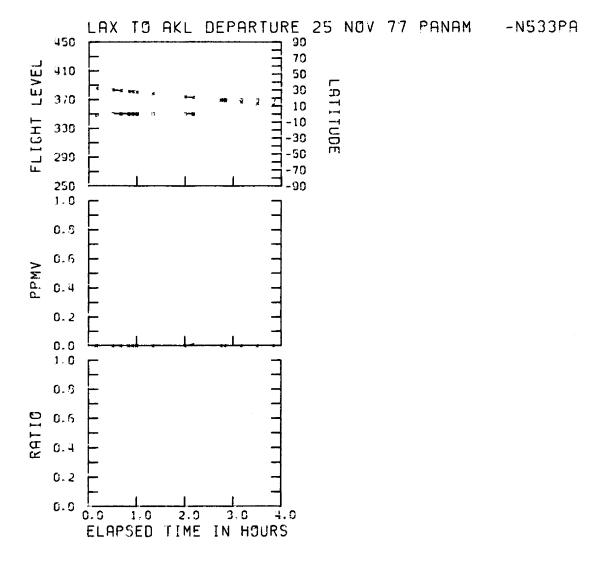
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO
11/22/77	2047	0:10	370	35.51N	120.61W	-57.	.000		11/23/77	0132	4155	390	55.09N	163.49W	-54.	•007	
11/22/77	2107	0:30	370	37.51N	122.35W	-57.	.000		11/23/77	0137	5:00	390	55.10N	164.72W	-56.	.000	
11/22/77	2122	0:45	350	39.19N	123.35W	-58.	•000		11/23/77	0142	5:05	391	55.10N	165.97W	-55.	.024	
11/22/77	2127	0:50	349	39.73N	123.67W	-61.	.000		11/23/77	0152	5:15	390	55.05N	168.43W	-57.	.000	
11/22/77	2132	0:55	349	40.27N	123.99W	-60.	.000		11/23/77	0202	5:25	390	54.95N	170.86W	-59.	.000	
11/22/77	2137	1:00	349	40.78N	124.33W	-59.	.000		11/23/77	0209	5:32	390	54.83N	172.46W	-57.	.000	
11/22/77	2147	1:10	370	41.74N	125.19W	-55.	.000		11/23/77	0219	5:42	390	54.62N	174.89W	-56.	.000	
11/22/77	2152	1:15	369	42.22N	125.65W	-51.	.005		11/23/77	0229	5:52	390	54.35N	177.32W	-55.	•023	
11/22/77	2202	1:25	370	43.22N	126.60W	<del>-</del> 50.	.005		11/23/77	0239	6:02	390	54.04N	179.69W	-53.	.000	
11/22/77	5515	1:35	369	44.14N	127.67W	-51.	.004		11/23/77	0249	6:12	410	53.96N	177.76E	-53.	.007	
11/22/77	5555	1:45	370	45.04N	128.77W	-53•	•005		11/23/77	0254	6:17	410	53.92N	176.51E	-54.	.015	
11/22/77				45.48N	129.33W				11/23/77				53.87N	175.30E	-53.	.000	
11/22/77		_		45.91N	129.88W				11/23/77				53.81N	174.09E	-55.	.000	
11/22/77		2:00	370	46.30N	130.50W	-56.	.000		11/23/77	0309	6:32	410	53.73N	172.91E	-54.	•002	
11/22/77				46.68N	131.16W				11/23/77				53.55N	170.58E			
11/22/77				47.44N	132.52W				11/23/77				53.35N	169.48E	-54.	.012	
11/22/77	4.04.2			48.18N	133.92W				11/23/77				52.74N	167.46E		.019	
11/22/77				48.90N	135.35W				11/23/77				52.11N	165.53E		.004	
11/22/77		_		49.62N	136.85W				11/23/77				51.47N	163.74E		•000	
11/22/77				49.97N	137.63W		.004		11/23/77				51.15N	162.86E		.000	
11/22/77				50.32N	138.40W				11/23/77				50.81N	162.00E	-	.001	
11/22/77	2337			50.65N	139.18W		.000		3/77ج 11/				49.39N	158.80E		•000	
÷ 11/22/77				50.99N	139.97W		.000		11/23/77				48.63N	157.38E		.000	
J 11/23/77				52.19N	143.49W		.004		11/23/77				47.91N	156.08E		•000	
11/23/77				52.77N	145.38¥		.069		11/23/77				46.79N	154.20E		•003	
11/23/77				53.32N	147.32W		.000		11/23/77				46.40N	153.57E		.000	
11/23/77				53.58N	148.32W		.019		11/23/77				44.84N	151.20E		.000	
11/23/77				53.84N	149.35W		.018		11/23/77				43.71N	149.48E		•000	
11/23/77				54.21N	151.56W		.014		11/23/77				43.01N	148.25E		•000	
11/23/77				54.49N	153.88W		.006		11/23/77				41.92N	146.44E		•000	
11/23/77				54.72N	156.20W		.010		11/23/77				41.20N	145.29E			
11/23/77				54.91N	158.58W				11/23/77				40.47N	144.17E			
11/23/77				55.04N	161.05W		.005		11/23/77				39.73N	143.09E		.000	
11/23/77	0127	4:50	391	55.07N	162.25W	-53.	.008		11/23/77	0654	10:17	430	38.18N	141.06E	-53.	•028	

-N533PA

HND TO JFK DEPARTURE 23 NOV 77 PANAM

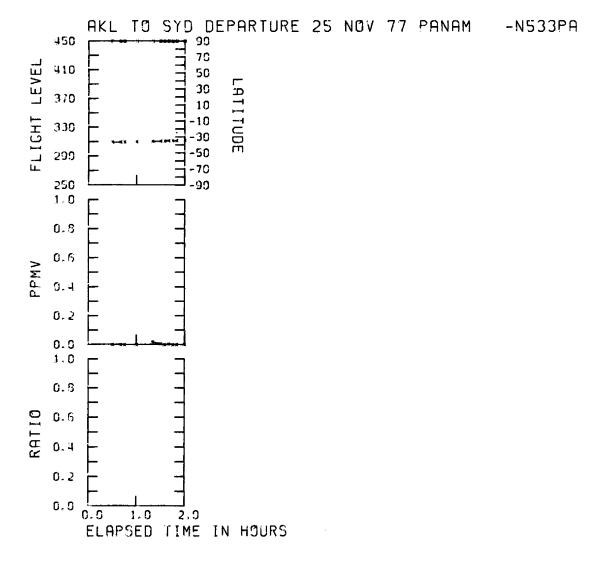
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .054 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL DBS IN CABIN: 74
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM FL HR:MN	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO
11/23/77	1329	0:10 324	36.74N	143.18E	-43.	.000		11/23/77	1909	5:50	390	58.73N	149.93W	-54.	.008	
11/23/77	1339	0:20 331	37.65N	144.81E	-43.	.001		11/23/77	1914	5:55	390	58.69N	148.71W	-56.	.012	
11/23/77	1349	0:30 330	38.85N	146.29E	-42.	.000		11/23/77	1924	6:05	390	58.41N	146.29W	-53.	.012	
11/23/77	1359	0:40 330	40.02N	147.85E	-42.	.000		11/23/77	1934	6:15	390	58.01N	143.89W	-49.	.002	
11/23/77	1404	0:45 330	40.59N	148.66E	-43.	.028		11/23/77				57.57N	141.54W	-52.	.022	
11/23/77		0:55 330	41.72N	150.33E	-42.	.000		11/23/77		6:35	390	57.08N	139.18W	-51.	.012	
11/23/77		1:00 331		151.21E	-45.	.000		11/23/77	1959	6:40	390	56.84N	137.99W	-52.	•006	
11/23/77		1:10 331	43.27N	152.99E	-48.	.000		11/23/77	2004	6:45	390	56.69N	136.74W	-52.	.019	
11/23/77	_	1:30 331		156.76E		.000		11/23/77	2009	6:50	390	56.53N	135.50W	-52.	.019	
11/23/77		1:45 330		159.66E		.013		11/23/77				55.95N	131.74W		.010	
11/23/77		1:50 330		160.60E		.019		11/23/77				55.49N	129.29W	-53.	•004	
11/23/77		2:00 331	47.90N	162.49E	-52•	.000		11/23/77		7:40	390	54.07N	123.12W	-55.	•005	
11/23/77		2:10 331		164.35E		.000		11/23/77					120.54W	-56.	.011	
11/23/77		2:20 330		166.19E	-52•	•000		11/23/77		8:05	390	53.61N	116.62W	-54.	•005	
11/23/77		2:45 330		170.71E		•000		11/23/77				53.42N	114.08W	-	.007	
11/23/77		2:50 331		171.57E		.000		11/23/77				53.17N	111.53W		.016	
11/23/77		2:55 331		172.42E		.000		11/23/77				52.88N	109.04W		.035	
11/23/77		3:10 350		175.14E		.000		11/23/77				52.71N	107.81W		.010	
11/23/77		3:20 390		176.97E		.001		11/23/77				52.33N	105.33W		•004	
11/23/77	_	3:30 390		178.69E		.054		11/23/77				52.13N	104.14W		•022	
11/23/77		3:40 390		179.29W		.016		11/23/77				51.20N	99.51W		•000	
11/23/77		3:45 390		178.27W		.006		11/23/77				50.67N	97.25W		•004	
ត្តី 11/23/77		3:50 390		177.25W		.011		11/23/77				50.09N	95.06W		.023	
5 11/23/77		3:55 390		176.24W		.006		11/23/77				49.79N	93.98W	-	.007	
11/23/77	_	4:00 390		175.20W		.018		11/23/77				49.48N	92.94W		.001	
11/23/77		4:15 390		172.00W		.001		11/23/77				49.17N	91.92W		•000	
11/23/77		4:25 390		169.90W		.023		11/23/77				48.85N	90.92W		•000	
11/23/77	_	4:35 390		167.68W		.022		11/23/77				48.52N	89.90W		•000	
11/23/77		4:40 390		166.57W		.017		11/23/77				47.83N	87.95W		.027	
11/23/77		4:45 390		165.44W		.016		11/23/77				47.10N	86.13W		.000	
11/23/77		4:50 390		164.33W		.021		11/23/77		-		46.32N	84.40W		.012	
11/23/77	_	4:55 390		163.16W		.019		11/23/77		_		45.50N	82.69W		•000	
11/23/77		5:05 390		160.84W		.016		11/24/77				45.09N	81.86W		•016	
11/23/77		5:15 390		158.40W		.010		11/24/77		10:50			81.03W		•000	
11/23/77		5:25 390		155.98W		.017		11/24/77				44.22N	80.19W		•000	
11/23/77		5:40 390		152.41W		.036		11/24/77				43.81N	79.36W		•004	
11/23/77	1904	5:45 390	58.75N	151.17W	-53•	.000		11/24/77	0039	11:20	+02	42.31N	75.88W	-58.	•000	



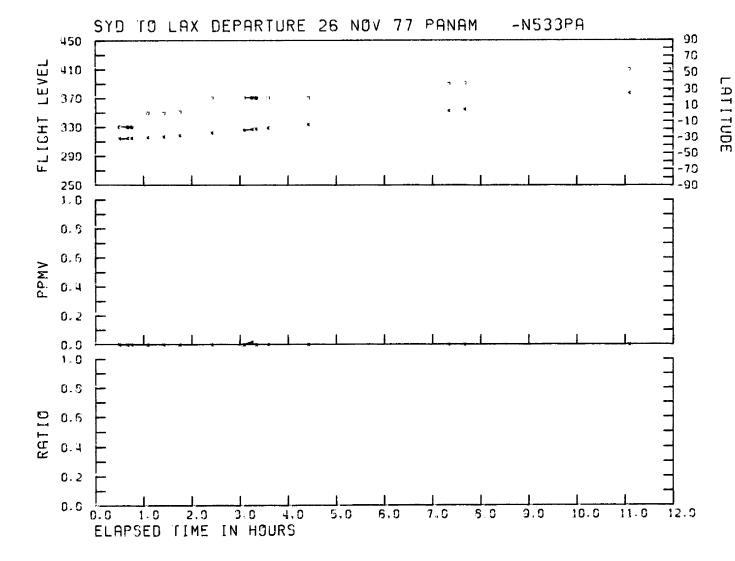
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .008 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 14
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/na/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
11/25/77 0829 11/25/77 0849 11/25/77 0859 11/25/77 0909 11/25/77 0914 11/25/77 0919 11/25/77 0939	0:50 350 28.32N 0:55 350 27.85N 1:00 350 27.39N		11/25/77 1029 2:10 350 20.63N 11/25/77 1104 2:45 370 17.38N 11/25/77 1109 2:50 370 16.92N 11/25/77 1129 3:10 370 15.13N 11/25/77 1149 3:30 370 13.28N	134.87W -46000 135.97W -45008 139.60W -52000 140.10W -52000 142.00W -51000 143.91W -51000 145.85W -50000



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .019 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 11
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEM	P OZONE(PPMV) RATIO CABIN AMB.
11/25/77 2248 11/25/77 2258 11/25/77 2303 11/25/77 2318 11/25/77 2338	0:45 450 36.33S 1:00 450 36.03S	166.91E -55. 166.10E -54. 163.65E -53.	.000 .000	11/25/77 2348 11/25/77 2353 11/25/77 2358 11/26/77 0003 11/26/77 0008 11/26/77 0018	1:30 450 35.25S 1:35 450 35.10S 1:40 450 34.94S 1:45 450 34.78S 1:50 450 34.62S 2:00 450 34.29S	157.95E -57 157.14E -57 156.34E -57 155.55E -57	000 003 000



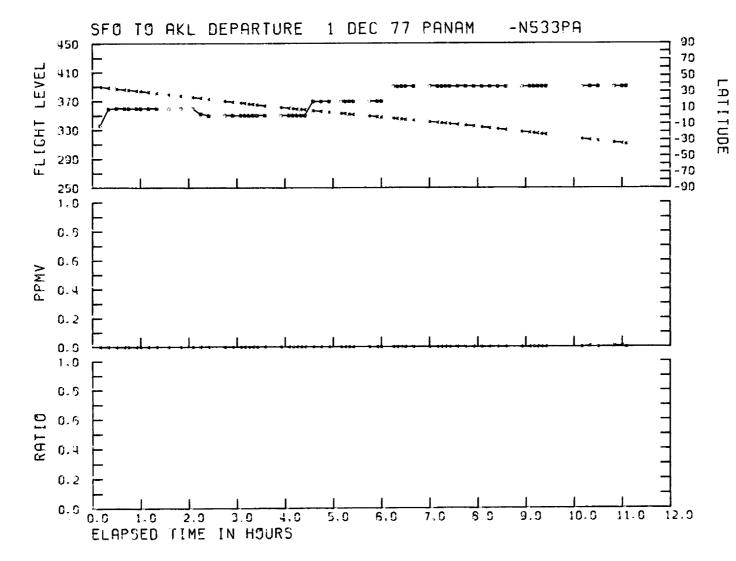
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .035 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 16 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM F HR:MN	L LAT	LONG TEMP	OZONE (PPMV) RATIO CABIN AMB.	MO/DA/YR GN	T ETIN	_	LAŤ			OZONE (PPMV) CABIN AMB.	RATIO
11/26/77 0812	0:30 33	0 32.165	157.21E -50	•000	11/26/77 110	0 3:16	371	20.695	178.81W -	-48.	.018	
11/26/77 0822			158.64E -50.		11/26/77 110	5 3:23	371	20.265	178.22W -	-49.	•000	
11/26/77 0827	0:45 33	0 31.485	159.34E -49.	.000	11/26/77 112	0 3:38	371	18.965	176.46W ·	-48.	•000	
11/26/77 0847	1:05 35	0 30.725	162.27E -47.	.000	11/26/77 121	0 4:26	371	14.525	170.76W -	-48.	.000	
11/26/77 0907	1:25 35	0 29.825	165.44E -46.	.000	11/26/77 150	5 7:23	390	2.77N	153.98W ·	-53.	.000	
11/26/77 0930	1:48 35	1 28.435	169.08E -42	•000	11/26/77 152	7:41	392	4.56N	152.27W -	-55.	•000	
11/26/77 1010			174.85E -47		11/26/77 184	_			130.71W ·			
11/26/77 1050	3:08 37	1 21.575	179.95E -49	.000	11/26/77 193	8 11:50	409	29.37N	124.65W ·	-59.	.035	

A-526

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE=0.000 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 0.00 TOTAL OBS IN CABIN: 9
DATA \$OURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM FL HR:MN	LAT	LONG TE		OZONE(PPMV) RATIO CABIN AMB.	MO/na/YR	GMT	ETIM FL HR:MN	LAT			OZONE(PPMV) RATIO CABIN AMB.
11/27/77 1 11/27/77 1 11/27/77 1 11/27/77 1	1238 1258	3:50 370 4:10 370	7.36N 5.43N	148.85W -4 149.77W -5 151.62W -4 155.47W -4	9.	.000 .000	11/27/77 11/27/77 11/27/77 11/27/77 11/27/77	1408 1438 1608	5:20 370 5:50 390 7:20 390	1.58S 4.56S 13.30S	156.42W -4 158.27W -4 161.10W -5 169.46W -5 172.49W -5	8 • 4 •	.000 .000 .000

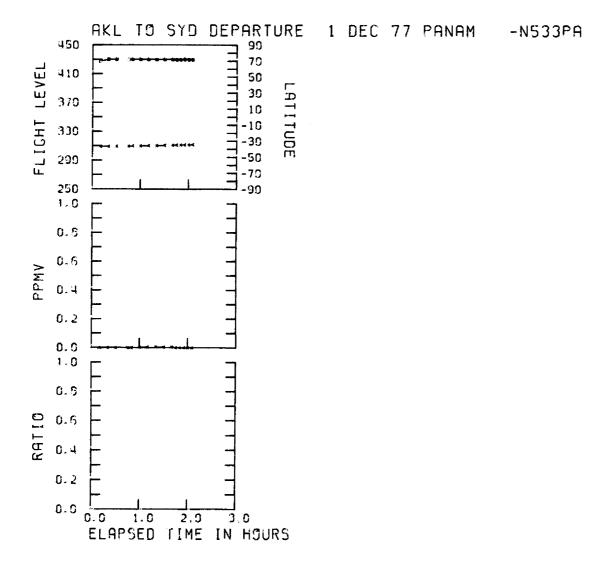


SFO TO AKL (PAGE 1 OF 1) DEPARTURE: 1 DEC 77 AIRCRAFT:PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .007 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 67 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR		ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV CABIN AMB	•
		HK + MN				(C)	CADIM WAR.				Litz + tana				(0)	CMBIN WMD	•
12/ 1/77 0	657	0:10	337	35.69N	125.00W	-49.	.000		12/ 1/77	1209	5:22	370	1.77N	155.09W	-49.	.000	
12/ 1/77 0				34.66N	126.12W		.000		12/ 1/77		5:27		1.27N	155.57W			
12/ 1/77 0	717				127.25W	-	.000		12/ 1/77	1234	5:47	370	.695	157.42W	-49.	.000	
12/ 1/77 0	727	0:40	360	32.49N	128.34W	-51.	.000		12/ 1/77	1244	5:57	370	1.665	158.35W	-49.	.000	
12/ 1/77 0	733	0:46	360	31.95N	128.88W	-51.	.000		12/ 1/77	1249	6:02	370	2.145	158.80W	-49.	.000	
12/ 1/77 0	742	0:55	360	30.85N	129.94W	-51.	.000		12/ 1/77	1304	6:17	390	3.595	160.17W	-56.	.000	
12/ 1/77 0	747	1:00	360	30.29N	130.46W	-51.	.000		12/ 1/77	1309	6:22	390	4.075	160.63W	~56.	.000	
12/ 1/77 0	757	1:10	360	29.17N	131.49W	-50•	.000		12/ 1/77	1314	6:27	390	4.555	161.09W	-56.	.000	
12/ 1/77 0	807	1:20	360	28.05N	132.48W	-49.	.000		12/ 1/77	1319	6:32	390	5.035	161.55W	-56.	•000	
12/ 1/77 0		1:36	360	26.37N	133.93W	-48.	.000		12/ 1/77	1329	6:42	390	6.015	162.48W	-55.	•000	
12/ 1/77 0				24.65N	135.35W		•000		12/ 1/77		7:02		7.935	164.31W			
12/ 1/77 0				22.92N	136.75W		.000		12/ 1/77		7:12	-	8.905	165.25W			
12/ 1/77 0				21.75N	137.66W		•000		12/ 1/77		7:17		9.405	165.74W			
12/ 1/77 0				20.45N	138.65W		.000		12/ 1/77		7:22			166.23W			
12/ 1/77 0				18.16N	140.48W		•000		12/ 1/77				10.385	166.70W			
12/ 1/77 0				17.01N	141.38W		•000		12/ 1/77				11.345	167.66W			
12/ 1/77 0				15.84N	142.28W		.000		12/ 1/77				12.295	168.61W			
12/ 1/77 0				15.25N	142.73W		•000		12/ 1/77				13.225	169.60W			
12/ 1/77 1				14.66N	143.17W		.000		12/ 1/77				14.435	170.79W			
12/ 1/77 1				14.08N	143.61W		•000		12/ 1/77				15.605	171.48W			
12/ 1/77 1				13.49N	144.05W		•000		12/ 1/77				16.755	172.21W			
12/ 1/77 1 \$ 12/ 1/77 1	044			12.33N	144.91W		.001		12/ 1/77				17.915	172.97W			
5 12/ 1/7/ 1	044			10.30N	146.91W		.000		12/ 1/77				20.135	174.47W			
8 12/ 1/77 1		4:07			147.90W		•000		12/ 1/77				21.205	175.20W			
12/ 1/77 1		4:12			148.39W		•000		12/ 1/77				21.785	175.51W			
12/ 1/77 1		4:17			148.89W		•000		12/ 1/77 12/ 1/77				22.37S 22.95S	175.84W			
12/ 1/77 1		4:22			149.38W		•000		12/ 1/77				23.545	176.49W			
12/ 1/77 1 12/ 1/77 1		4:27 4:37			149.81W 150.67W		.000 .000		12/ 1/77				28.885	179.64W			
12/ 1/77 1		4:47			151.66W		_		12/ 1/77				30.075	179.60E		-	
12/ 1/77 1		4:57			151.00W		.000 .000		12/ 1/77				31.255	178.83E		•	
12/ 1/77 1		5:12			154.14W		•000		12/ 1/77				33.635	177.20E			
12/ 1/77 1		5:17			154.62W		.000		12/ 1/77		_		34.795	176.36E			
12/ 1/// 1	~ U <del>*</del>	5.11	310	EAZIN	134.05#	-47.	• • • •		12/ 1/77					175.93E			
									*** */**	-154	4	-,,	234303		•	-000	

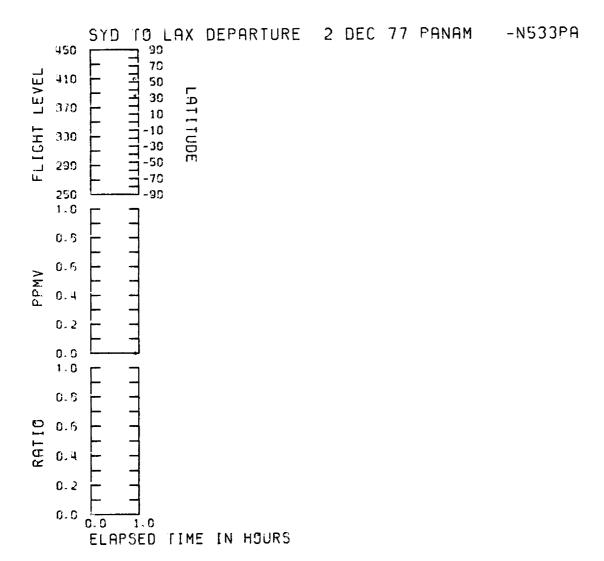




MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .006 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 15 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
12/ 1/77 2030 12/ 1/77 2040 12/ 1/77 2050 12/ 1/77 2105 12/ 1/77 2110 12/ 1/77 2120 12/ 1/77 2130	0:20 430 36.72S 0:30 430 36.57S 0:45 430 36.32S 0:50 430 36.23S 1:00 430 36.03S	171.65E -55000 170.02E -57000 168.42E -58000 166.04E -57000 165.26E -57000 163.69E -56004 162.15E -58005	12/ 1/77 2150	

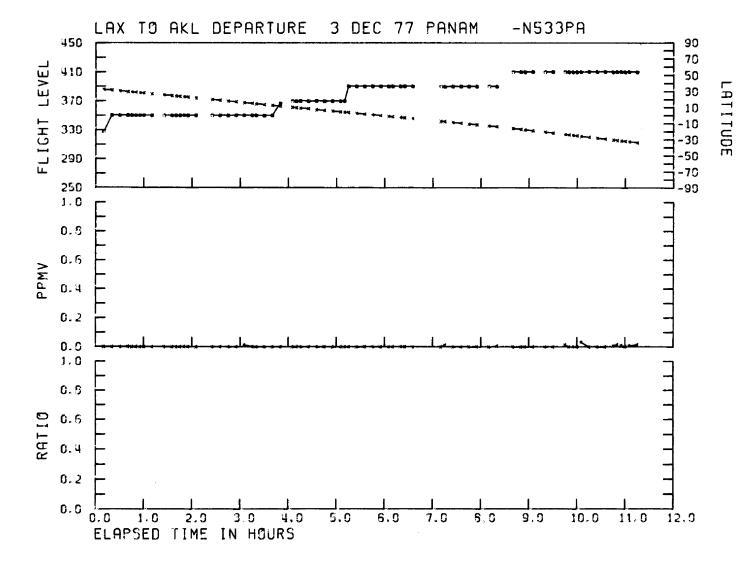




MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE=0.000 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 0.00 TOTAL OBS IN CABIN: 1
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

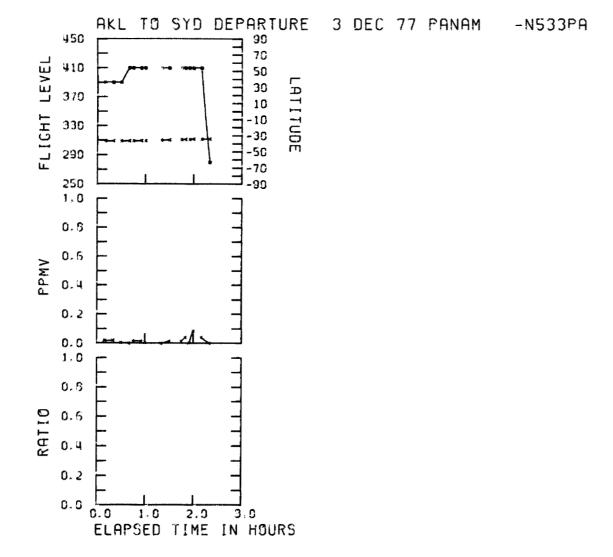
12/ 2/77 2324 0:55 410 32.48N 119.50W -57. .000



LAX TO AKL (PAGE 1 OF 1) DEPARTURE: 3 DEC 77 AIRCRAFT:PANAM -N533PA

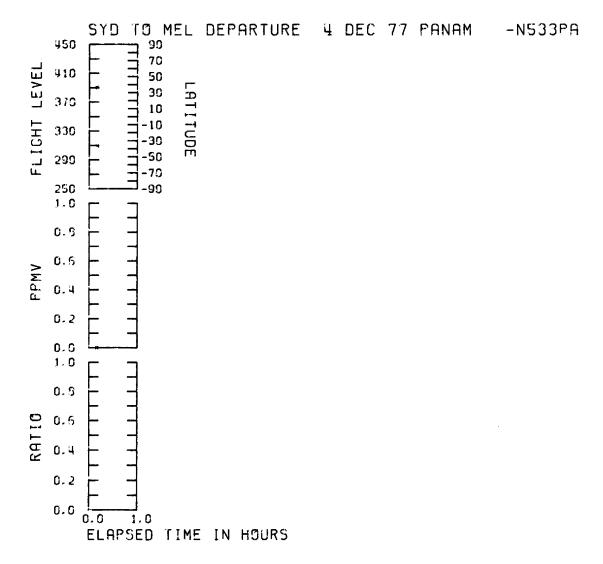
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .033 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 73
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR G		ETIM FL R:MN	LAT			OZONE (PPMV) CABIN AMB.	RATIO
12/ 3/77 0837	0:10 328 32.03N	120.48W -42.	.000	12/ 3/77 13	353	5:26 390	2.59N	154.31W	-53.	.000	
12/ 3/77 0847	0:20 350 31.25N	121.89W -46.		12/ 3/77 14	403	5:36 390	1.67N	155.18W		.000	
12/ 3/77 0857	0:30 350 30.36N	123.25W -46.	.000	12/ 3/77 14		5:46 390	.74N	156.07W	-54.	•000	
12/ 3/77 0907	0:40 350 29.47N	124.57W -46.	.001	12/ 3/77 14	423	5:56 390	.215	156.97₩	-54.	.000	
12/ 3/77 0912	0:45 350 29.02N	125.22W -47.	.000	12/ 3/77 14		6:06 390	1.165	157.87W		.000	
12/ 3/77 0917	0:50 350 28.57N	125.87W -46.	.000	12/ 3/77 14	438	6:11 390	1.635	158.31W ·	-54.	.000	
12/ 3/77 0922	0:55 350 28.11N	126.52W -46.	.000	12/ 3/77 14		6:21 390	2.565	159.20W	-54.	.001	
12/ 3/77 0927	1:00 350 27.66N	127.15W -46.	.000	12/ 3/77 14		6:26 390	3.035	159.64W		.000	
12/ 3/77 0937	1:10 350 26.74N	128.40W -46.	.000	12/ 3/77 15		6:36 390	3.975	160.54W		•000	
12/ 3/77 0952	1:25 350 25.36N	130.22W -46.	.000	12/ 3/77 15		7:11 390	7.245	163.65W		• 0 0 0	
12/ 3/77 1002	1:35 350 24.44N			12/ 3/77 15		7:16 390	7.655	164.14W		.011	
12/ 3/77 1007	1:40 350 23.98N	131.98w -46.		12/ 3/77 15		7:26 390	8.645	165.00W		•000	
12/ 3/77 1012	1:45 350 23.51N	132.56W -46.		12/ 3/77 16		7:36 390	_	165.95W		•000	
12/ 3/77 1017	1:50 350 23.03N	133.14W -47.		12/ 3/77 16		7:46 390		166.91W		•000	
12/ 3/77 1022	1:55 350 22.55N			12/ 3/77 16		7:56 390		167.88W		.000	
12/ 3/77 1032	2:05 350 21.59N	134.87W -46.		12/ 3/77 16		8:10 390		169.23W		•000	
12/ 3/77 1052	2:25 350 19.69N	137.05W ~49.		12/ 3/77 16		8:20 390		170.21W		•006	
12/ 3/77 1103	2:36 350 18.64N	138.22W -50.		12/ 3/77 17		8:40 410		171.79W		•000	
12/ 3/77 1113	2:46 350 17.74N			12/ 3/77 17		8:50 410		172.52W		•000	
12/ 3/77 1123	2:56 350 16.84N			12/ 3/77 17		8:55 410		172.89W		•000	
12/ 3/77 1133	3:06 350 15.90N			12/ 3/77 17		9:05 410		173.63W		•000	
12/ 3/77 1143	3:16 350 14.93N			12/ 3/77 17	747	9:20 410		174.78W		•000	
P 12/ 3/77 1148	3:21 350 14.44N			12/ 3/77 17	757	9:30 410	-	175.48W		.000	
영 12/ 3/77 1158	3:31 350 13.45N	143.73W -42.		12/ 3/77 18		9:45 410		176.46W		•015	
12/ 3/77 1208	3:41 350 12.48N	144.73W -42.		12/ 3/77 18		9:50 410		176.79W		.000	
12/ 3/77 1218	3:51 367 11.51N	145.70W -47.		12/ 3/77 18		9:55 410		177.12W		•001	
12/ 3/77 1233	4:06 370 10.07N	147.12W -48.		12/ 3/77 18		0:00 410		177.45W		•000	
12/ 3/77 1238	4:11 370 9.61N	147.59W -47.		12/ 3/77 18		0:05 410		177.79W		•033	
12/ 3/77 1243	4:16 370 9.14N			12/ 3/77 18		0:15 410		178.46W		.000	
12/ 3/77 1253	4:26 370 8.21N	148.95W -48.		12/ 3/77 18		0:25 410	-	179.15W		.000	
12/ 3/77 1303	4:36 370 7.27N	149.86W +48.		12/ 3/77 19		0:35 410		179.84W		.000	
12/ 3/77 1313	4:46 370 6.33N	150.76W ~48.		12/ 3/77 19		0:45 410		179.45E		•007	
12/ 3/77 1323	4:56 370 5.40N	151.65W -48.		12/ 3/77 19		0:50 410		179.09E		.016	
12/ 3/77 1333 12/ 3/77 1338	5:06 370 4.46N	152.55₩ ~48.		12/ 3/77 19 12/ 3/77 19		0:55 410		178.73E		•010	
	5:11 370 3.99N			12/ 3/11 19		1:00 410		178.36E		.001	
12/ 3/77 1343	5:16 390 3.52N	153.44W -54.	•000	12/ 3/77 19			-	177.24E		.009 .015	
				16/ 3/11 19	776 1	1.12 410	33.013	1110246	-31.	•012	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .083 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 15 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT	LONG TEMP OZONE(PPMV) RATIO	MO/na/YR GMT	ETIM FL LAT hr:mn	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
12/ 3/77 2215 12/ 3/77 2225 12/ 3/77 2235 12/ 3/77 2245 12/ 3/77 2250 12/ 3/77 2300 12/ 3/77 2305	0:20 390 36.72S 0:30 390 36.58S 0:40 410 36.56S 0:45 410 36.65S 0:55 410 36.50S		12/ 3/77 2325 12/ 3/77 2336 12/ 3/77 2350 12/ 3/77 2355 12/ 4/77 0000 12/ 4/77 0005 12/ 4/77 0015 12/ 4/77 0025	1:45 410 34.955 1:50 410 34.805 1:55 410 34.655 2:00 410 34.505 2:10 410 34.245	159.42E -58014 157.27E -58015 156.54E -58040 155.83E -58004 155.14E -58083



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE=0.000 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 0.00 TOTAL OBS IN CABIN: 1
DATA SOURCE: GASP TAPE VL014, FILE 1

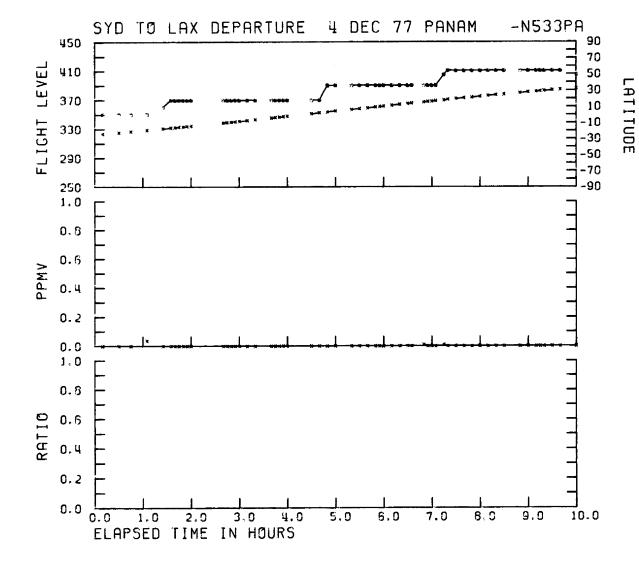
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

12/ 4/77 0349 0:10 390 36.76S 146.66E -54. .000

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .001 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 1
DATA SOURCE: GASP TAPE VL014, FILE 1

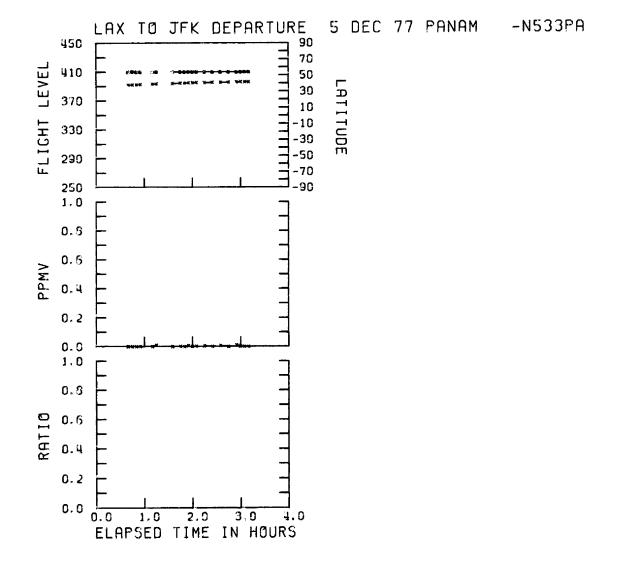
MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

12/ 4/77 0632 0:10 370 35.83S 147.49E -54. .001



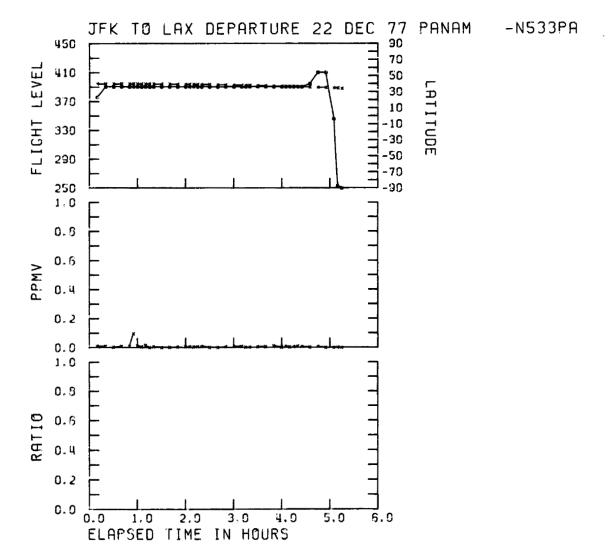
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .037 RATIO (LIMITE) TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 58 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV CABIN AMB	
12/ 4/77	1247	0:10	350	23.865	176.00E	-47.	.000		12/ 4/77	1817	5:40	390	8.39N	148.78W	-55.	•000	
12/ 4/77	1307	0:30	350	22.235	178.75E	-44.	.000		12/ 4/77	1827	5:50	390	9.41N	147.78W	-54.	•000	
12/ 4/77	1322	0:45	350	20.895	179.25W	-44.	.000		12/ 4/77	1832	5:55	390	9.91N	147.28W	-54.	.000	
12/ 4/77	1342	1:05	350	19.035	176.70W	-43.	.037		12/ 4/77	1837	6:00	390	10.43N	146.78W	-54.	.000	
12/ 4/77	1402	1:25	360	17.225	174.33W	-46.	.000		12/ 4/77	1847	6:10	390	11.45N	145.76W	-54.	•000	
12/ 4/77	1412	1:35	370	16.305	173.16W	-48.	.000		12/ 4/77	1857	6:20	390	12.47N	144.74W	-53.	•000	
12/ 4/77	1417	1:40	370	15.855	172.59W	-48.	.000		12/ 4/77	1907	6:30	390	13.48N	143.71W	-53.	.001	
12/ 4/77					172.02W	-48.	.000		12/ 4/77	1912			13.98N	143.20W	-53.	•000	
12/ 4/77				14.955	171.46W	-48.	.000		12/ 4/77				15.47N	141.65W	-52•	.008	
12/ 4/77		-		14.515	170.90W		.000		12/ 4/77				15.96N	141.12W	-52•	•000	
12/ 4/77	_	_	-	14.045		-48.	.000		12/ 4/77	1937	7:00	390	16.46N	140.60W	-51.	•000	
12/ 4/77		2:40	370	10.085	166.41W	-47.	.000		12/ 4/77				16.94N	140.08W	-51.	.000	
12/ 4/77				9.605	165.94W	-48.	.000		12/ 4/77				17.89N	139.05W	-53.	•009	
12/ 4/77		2:50		9.135	165.47W	-47.	.000		12/ 4/77				18.75N	138.10W		.000	
12/ 4/77		2:55		8.645	165.00W		.000		12/ 4/77				19.69N	137.05W		•000	
12/ 4/77		3:00			164.52W		.000		12/ 4/77				20.61N	136.00W	-55.	.000	
12/ 4/77		3:10		7.165	163.57W	-48.	.000		12/ 4/77	_			21.31N	135.19W		•000	
12/ 4/77		3:20		6.145	162.60W		•000		12/ 4/77				22.41N	133.88W		-000	
12/ 4/77		3:40		4.005	160.57W	-48.	.000		12/ 4/77				23.30N	132.81W	-57.	.000	
12/ 4/77		3:45		3.465	160.05W	-48.	.000		12/ 4/77				24.18N	131.72W	-57.	•000	
12/ 4/77		3:50		2.925	159.55W	-48.	.000		12/ 4/77				25.06N	130.61W	-58.	•000	
12/ 4/77	1632	3:55			159.04W		.001		12/ 4/77				26.80N	128.32W		•000	
P 12/ 4/77 2 12/ 4/77	1637	4:00		1.875	158.54W		.000		12/ 4/77				27.67N	127.14W		•000	
		4:30		1.25N	155.59W		.000		12/ 4/77				28.51N	125.96W		•000	
12/ 4/77		4:40		2.28N	154.61W		.000		12/ 4/77	-			28.93N	125.35W		•000	
12/ 4/77		4:50		3.32N	153.63W		.000		12/ 4/77				29.36N	124.74W			
12/ 4/77	_	5:00			152.65W				12/ 4/77				30.20N	123.49W			
12/ 4/77		5:20		6.37N	150.72W		•000		12/ 4/77				31.02N	122.24W		•000	
12/ 4/77	1807	5:30	390	7.37N	149.76W	-55•	.000		12/ 4/77	223B	10:01	405	32.33N	120.01W	-56.	•000	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .010 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 20 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN		DZONE(PPMV) RATIO Cabin Amb.	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(PPMV) RATIO CABIN AMB.
12/ 5/77 1323 12/ 5/77 1328 12/ 5/77 1333 12/ 5/77 1338 12/ 5/77 1353 12/ 5/77 1418 12/ 5/77 1428 12/ 5/77 1433 12/ 5/77 1438	0:50 410 38.21N 0:55 410 38.42N 1:10 410 39.01N 1:15 410 39.19N 1:35 410 39.85N 1:45 410 40.13N 1:50 410 40.26N	105.25W -53. 104.33W -50. 103.44W -50. 100.71W -47. 99.80W -47. 95.96W -47. 94.07W -48. 93.09W -46.	.000 .000 .000 .000 .000 .010 .000 .001	12/ 5/77 12/ 5/77 12/ 5/77 12/ 5/77 12/ 5/77 12/ 5/77 12/ 5/77 12/ 5/77	1448 1458 1508 1518 1528 1538 1543 1548	2:05 2:15 2:25 2:35 2:45 2:55 3:00 3:05	410 410 410 410 410 410 410	40.50N 40.61N 40.81N 40.97N 41.09N 41.28N 41.46N 41.54N 41.63N 41.53N	91.15W 90.16W 88.12W 86.09W 84.08W 82.03W 79.93W 78.88W 77.82W 76.44W	-48. -49. -50. -51. -52. -52. -56.	.002 .005 .000 .006 .000 .010 .002



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .095 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 41
DATA SOURCE: GASP TAPE VL014, FILE 1

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) (C) CABIN AMB.	RATIO MO/na/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
12/22/77 2355 12/23/77 0009 12/23/77 0019 12/23/77 0029 12/23/77 0039 12/23/77 0044 12/23/77 0054 12/23/77 0059 12/23/77 0104 12/23/77 0109 12/23/77 0119 12/23/77 0129 12/23/77 0139 12/23/77 0154 12/23/77 0159 12/23/77 0159 12/23/77 0159 12/23/77 0159 12/23/77 0204	0:10 376 40.06N 0:24 390 39.98N 0:34 391 40.01N 0:44 391 39.99N 0:55 391 39.99N 1:04 391 39.98N 1:09 391 39.96N 1:14 391 39.96N 1:14 391 39.92N 1:24 390 39.92N 1:24 390 39.82N 1:34 390 39.82N 1:44 390 39.82N 1:54 390 39.82N 1:54 390 39.82N 1:54 390 39.82N 1:54 390 39.82N 1:54 390 39.82N 1:54 390 39.82N 1:54 390 39.82N	75.98W -52010 78.28W -55010 79.85W -58004 81.40W -61010 82.94W -63010 83.70W -61095 84.45W -63010 85.19W -64005 85.93W -63017 86.66W -66000 87.38W -64006 88.76W -66000 90.13W -65001 91.52W -63004 92.89W -64005 93.56W -64005 94.25W -62004 94.94W -64006	12/23/77 0229 12/23/77 0239 12/23/77 0249 12/23/77 0259 12/23/77 0309 12/23/77 0319 12/23/77 0329 12/23/77 0339 12/23/77 0354 12/23/77 0354 12/23/77 0359 12/23/77 0404 12/23/77 0409 12/23/77 0409 12/23/77 0404 12/23/77 0404 12/23/77 0404	2:44 390 38.89N 2:54 390 38.70N 3:04 390 38.49N 3:14 390 38.27N 3:19 390 38.15N 3:24 391 38.04N 3:34 391 37.79N 3:44 391 37.53N 3:54 390 37.25N 4:04 390 36.97N 4:09 390 36.83N 4:14 391 36.69N 4:19 391 36.55N 4:24 391 36.40N 4:29 390 36.26N 4:39 395 35.97N 4:49 410 35.65N 4:59 410 35.31N	98.32W -62000 99.67W -58005 101.00W -58008 102.28W -58008 102.93W -57002 103.56W -60002 104.83W -59006 106.11W -57006 107.36W -58012 108.57W -58002 109.17W -59008 109.75W -60004 110.31W -60006 110.88W -60010 111.42W -60007 112.50W -60002 113.64W -62007 114.80W -62000
12/23/77 0209 12/23/77 0219	2:24 391 39.24N 2:34 390 39.07N	95.63W -62008 97.00W -61000	12/23/77 0454 12/23/77 0459 12/23/77 0504A	5:09 346 34.97N 5:14 253 34.78N 5:19 194 34.28N	115.89W -49000 116.49W -35001 117.06W -22000

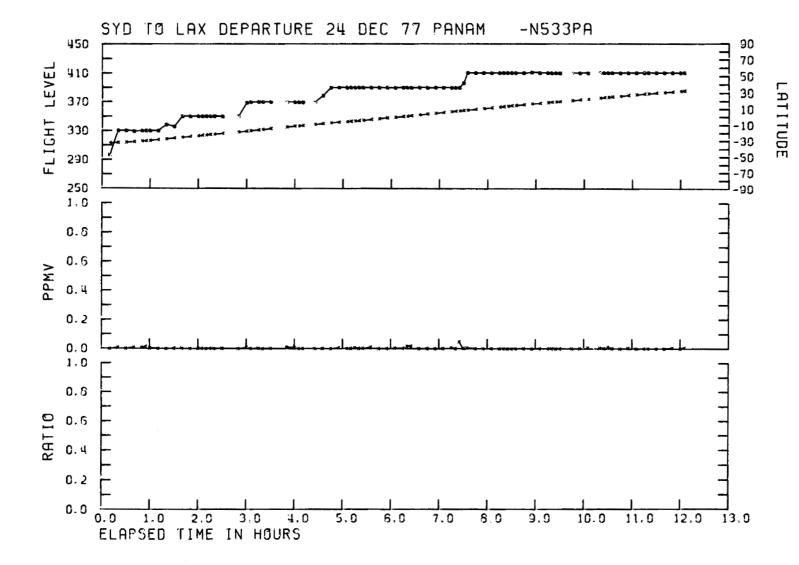
A-548

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .121 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: .80
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPM CABIN AM	-	ATIO
12/23/77	0839	0:10	326	32.84N	119.77W	-43.	.009		12/23/77	1454	6:25	391	3.50N	153.46W	-54.	.000		
12/23/77				32.19N	120.60W		.009		12/23/77	1504	6:35	391	2.54N	154.36W	-53.	.002		
12/23/77				31.52N	121.46W		.014		12/23/77	1514	6:45		1.57N	155.28W		.004		
12/23/77	0909	0:40	349	30.92N	122.39W	-50.	.012		12/23/77	1519	6:50	391	1.09N	155.73W	-54.	.000		
12/23/77	0914	0:45	350	30.62N	122.86W	<b>-50</b> •	.013		12/23/77	1524	6:55	391	.62N	156.18W	-54.	.004		
12/23/77	0919	0:50	349	30.31N	123.33W	-49.	.014		12/23/77	1529	7:00	391	.15N	156.63W	-54.	•005		
12/23/77	0924	0:55	350	29.99N	123.80W	-50.	.013		12/23/77	1534	7:05	391	.325	157.07W	-54.	.000		
12/23/77	0929	1:00	350	29.67N	124.28W	-50.	•009		12/23/77	1650	8:21	410	7.385	163.78W	-60.	.001		
12/23/77	0939	1:10	350	29.01N	125.23W	-50.	.007		12/23/77	1700	8:31	410	8.345	164.70W	-60.	•007		
12/23/77	0949	1:20	350	28.36N	126.17W	-49·	.000		12/23/77	1710	8:41	410	9.298	165.63W	-59.	.004		
12/23/77	0959	1:30	350	27.70N	127.09W	-49.	.000		12/23/77	1720	8:51	410	10.245	166.57W	-59.	.010		
12/23/77		1:40	350	27.04N	128.00W	-48.	.007		12/23/77	1725	8:56	410	10.705	167.02W	-59.	.009		
12/23/77	1014	1:45	350	26.71N	128.45W	-48.	•000		12/23/77	1730	9:01	410	11.185	167.50W		.019		
12/23/77		1:55	350	26.04N	129.34W	-47.	.000		12/23/77				11.645	167.96W	-59.	•005		
12/23/77				25.69N	129.79W		•000		12/23/77				12.115	168.43W		.002		
12/23/77				20.59N	136.02W		•000		12/23/77				13.948	170.30W		.002		
12/23/77				20.20N	136.47W		.000		12/23/77				14.975	171.11W		.063		
12/23/77				19.41N	137.36W		.000		12/23/77				16.105	171.83W		.121		
12/23/77				18.62N	138.25W		.018		12/23/77				16.665	172.19W		.000		
12/23/77				17.81N	139.14W		.004		12/23/77	-			17.815	172.94W		.012		
12/23/77	_			17.40N	139.58W		.000		12/23/77		-		18.405	173.33W		.000		
12/23/77	1224			16.98N	140.03W		.024		12/23/77		-		19.53\$	174.09W		.002		
\$ 12/23/77	1229			16.57N	140.48W		.000		12/23/77				20.675	174.87W		.014		
£ 12/23/77				16.15N	140.92W		.000		12/23/77				21.795	175.54W		.000		
12/23/77				15.31N	141.81W		.007		12/23/77				22.985	176.19W		.037		
12/23/77				14.43N	142.73W		• 0 0 0		12/23/77		_		23.545	176.50W		•005		
12/23/77				13.54N	143.64W		.000		12/23/77				24.135	176.83W		•000		
12/23/77				12.22N	144.99W		.001		12/23/77				24.695	177.15W		.001		
12/23/77				11.77N	145.44W		•000		12/23/77	_			25.28\$	177.49W		.024		
12/23/77				11.31N	145.89W		•000		12/23/77				26.395	178.13W		.006		
12/23/77				10.85N	146.36W		•000		12/23/77					178.49W		.004		
12/23/77	_	5:15		9.96N	147.24W		.000		12/23/77				28.645	179.48W		.000		
12/23/77		5:25		9.05N	148.13W		.000		12/23/77				29.705	179.86E		.007		
12/23/77		5:35		8.13N	149.02W		.005		12/23/77				30.765	179.19E		.010		
12/23/77		5:45		7.22N	149.91W		.004		12/23/77				31.275	178.85E		•007		
12/23/77		5:50		6.75N	150.36W		.007		12/23/77	-			31.785	178.52E		.001		
12/23/77		5:55		6.29N	150.80W		.000		12/23/77		_		32.285	178.18E		.010		
12/23/77		6:00		5.82N	151.25W		.000		12/23/77				32.805	177.84E	-	.011		
12/23/77		6:05		5.35N	151.69W		.000		12/23/77		-		33.875	177.10E		.016		
12/23/77	1444	6:15	391	4.42N	152.59W	-54.	.000		12/23/77	2110	12:41	410	35.005	176.30E	-56.	•002		

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .019 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 17
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM F	L	LAT	LONG		OZONE (PPMV) RATIO CABIN AMB.	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(PPMV) RATIO CABIN AMB.
12/23/77 2 12/23/77 2 12/23/77 2 12/24/77 0 12/24/77 0 12/24/77 0 12/24/77 0	347 357 007 012 017 022	0:30 39 0:40 39 0:45 39 0:50 39	91 91 91 91 90	36.80S 36.67S 36.53S 36.45S 36.37S 36.28S	172.59E 171.06E 169.52E 167.99E 167.23E 166.47E 165.71E 164.96E	-50. -52. -54. -54. -56. -58.	.012 .000 .016 .011 .013	12/24/77 12/24/77 12/24/77 12/24/77 12/24/77 12/24/77 12/24/77 12/24/77	0047 0057 0107 0112 0117 0122 0128	1:20 1:30 1:40 1:45 1:50 1:55 2:01	391 390 391 390 390 390	35.77S 35.53S 35.28S 35.14S 35.00S 34.86S 34.71S	163.44E 161.91E 160.41E 158.93E 158.19E 157.46E 156.73E 155.96E 154.50E	-63. -63. -64. -62. -59. -57.	.017 .013 .007 .019



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .049 RATIO (LIMITER TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 85
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) F	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PP	-	RATIO
12/24/77	0630	0.10	207	33.155	153.86E	-30	.000		12/24/77	1252	6:23	300	.72N	164.41W	-54.	.017		
12/24/77				32.655	155.53E		.007		12/24/77		6:28		1.25N	163.96W		.017		
12/24/77				32.125	157.23E		.001		12/24/77		6:39		2.44N	163.07W		•000		
12/24/77				31.555	158.89E		.007		12/24/77		6:49		3.39N	162.09W		•000		
12/24/77		-		30.755	160.32E		.008		12/24/77		6:59		4.50N	161.32W		.000		
12/24/77	0724	0:55	330	30.325	161.01E	-47.	.014		12/24/77	1338	7:09	390	5.60N	160.46W	-54.	.000		
12/24/77	0729	1:00	330	29.885	161.70E		.003		12/24/77	1348	7:19	390	6.63N	159.46W		•006		
12/24/77	0739	1:10	330	28.985	163.05E	-44.	.000		12/74/77	1353	7:24	390	7.14N	158.97W	-54.	•000		
12/24/77		-		28.065	164.41E		.000		12/24/77		7:29	-	7.64N	158.47W		.049		
12/24/77		-		26.835	166.13E		.002		12/24/77		7:34		8.14N	157.98W	-55.	.002		
12/24/77				25.885	167.44E		.002		12/24/77		7:39		8.64N	157.48W		•005		
12/24/77				24.915	168.73E		.000		12/24/77		7:49		9.64N	156.47W		•000		
12/24/77				23.955	169.97E		.002		12/24/77				10.63N	155.43W		•000		
12/24/77				23.465	170.60E		.001		12/24/77				11.59N	154.36W		•000		
12/24/77				22.975	171.22E		.000		12/24/77				12.54N	153.30W		•000		
12/24/77				22.485	171.83E		.000		12/24/77				13.01N	152.76W		.000		
12/24/77				22.005	172.42E		.000		12/24/77				13.49N	152.22W		•000		
12/24/77 12/24/77				21.065	173.55E		.001		12/24/77 12/24/77				13.97N	151.67W		•000		
12/24/77				19.185 18.175	175.73E 176.77E		.000		12/24/77				14.46N 15.41N	151.10W 149.97W		-000		
12/24/77		-		17.665	177.27E		.008 .000		12/24/77				16.31N	148.75W		•000 •000		
12/24/77				16.615	178.19E		.001		12/24/77				17.19N	147.53W		•000		
₹ 12/24/77				16.075	178.63E		.000		12/24/77				18.09N	146.28W		.000		
S 12/24/77	1002			14.975	179.47E		•000		12/24/77				18.55N	145.63W		•000		
12/24/77				12.845	179.71E		.011		12/24/77				19.00N	144.98W		•000		
12/24/77				11.985	179.13W		.004		12/24/77				19.45N	144.34W		.000		
12/24/77				11.575	178.55W		.000		12/24/77				20.80N	142.37W		.000		
12/24/77	1042A			11.095	178.07W		.000		12/24/77	1628	9:59	410	21.75N	140.96W	-53.	.002		
12/24/77	1057	4:28	370	9.645	176.61W	-47.	.000		12/24/77	1638	10:09	410	22.68N	139.52W	-52.	•006		
12/24/77	1107	4:38	379	8.685	175.60W	-51.	.001		12/24/77				24.10N	137.29W		•005		
12/24/77		4:48	390	7.745	174.61%	-55•	.000		12/24/77	1658	10:29	410	24.56N	136.53W	-53.	•002		
12/24/77		4:58	390	6.805	173.63W	-55•	•006		12/24/77				25.02N	135.78W		.012		
12/24/77		5:08		6.195	172.44W		.000		12/24/77				25.47N	135.02W		•002		
12/24/77	_	5:13		5.765	171.88W		.001		12/24/77				26.38N	133.44W		•000		
12/24/77		5:18		5.325	171.34W		.005		12/24/77				27.29N	131.84W		• 0 0 4		
12/24/77		5:23		4.845	170.84W		.001		12/24/77				28.17N	130.24W		•000		
12/24/77	_	5:28		4.355	170.33W		.002		12/24/77				28.94N	128.59W		.001		
12/24/77	-	5:38		3.375	169.30W		.010		12/24/77				29.36N	127.61W		.001		
12/24/77		5:48		2.385	168.27W		.000		12/24/77		_		30.08N	125.91W		•000		
12/24/77		5:58		1.415	167.24W		.000		12/24/77				30.77N	124.19W		.000		
12/24/77	_	6:08		•545	166.10W		.004		12/24/77		-		31.43N	122.42W		•005		
12/24/77	1247	6:18	390	•55N	164.89W	<del>-53</del> •	•002		12/24/77				32.21N	120.71W		•001		
									12/24/77	1838	15:03	+ T ()	32.69N	119.91W	-20.	•006		

-N533PA

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .022 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 93
DATA SOURCE: GASP TAPE VL014, FILE 1

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (F	PMV) AMB.	RATIO
	12/25/77	0712	0.10	210	32.47N	120.29W	-61	.006	12/25/77	1334	6:32	300	1.77N	155.10W	-54.	.004		
	12/25/77				31.69N	121.24W			12/25/77		6:37			155.53W		.010		
	12/25/77				30.37N	123.24W			12/25/77		6:42		.85N	155.96W		.006		
	12/25/77				30.05N	123.72W			12/25/77		6:47		-	156.40W		.010		
	12/25/77	_			29.71N	124.21W			12/25/77		6:52			156.84W		.000		
	12/25/77				29.38N	124.71W			12/25/77		7:02			157.72W		.000		
	12/25/77				29.03N	125.21W			12/25/77		7:15		2.185	158.83W		.000		
	12/25/77	0812A			28.32N	126.22W			12/25/77		7:25	390	3.158	159.76W		.002		
	12/25/77	0818			27.96N	126.74W			12/25/77		7:35		4.125	160.68W	-55.	.002		
	12/25/77	0828	1:26	350	27.27N	127.69W			12/25/77		7:40	390	4.595	161.13W	-55.	.005		
	12/25/77	0838	1:36	351	26.57N	128.64W	-46.	.000	12/25/77	1447	7:45	390	5.07S	161.59W	-55.	.000		
	12/25/77	0848	1:46	351	25.86N	129.57W	-46.	.005	12/25/77	1452	7:50	390	5.52S	162.02W	-55.	.000		
	12/25/77	0853	1:51	351	25.52N	130.01W	-46.	.000	12/25/77	1457	7:55	390	5.985	162.45W	-55.	.000		
	12/25/77	0903	2:01	351	24.81N	130.93W	-45.	.000	12/25/77	1507	8:05	391	6.945	163.26W	-55.	.007		
	12/25/77	-	2:11	351	24.11N	131.81W	-45.	.003	12/25/77	1517	8:15		7.815	164.25W	-55.	.000		
	12/25/77				23.39N	132.70W		.003	12/25/77		8:25		8.775	165.13W	-55.	.001		
	12/25/77				22.69N	133.56W			12/25/77		8:35		9.695	166.02W		.010		
	12/25/77				21.95N	134.43W			12/25/77				10.145	166.46W		.012		
	12/25/77		_		21.58N	134.88W		.005	12/25/77				10.605	166.92W		.010		
	12/25/77				21.20N	135.32W			12/25/77				-	167.38W		.000		
	12/25/77				20.82N	135.76W			12/25/77				11.535	167.85W		.000		
<b>D</b>	12/25/77				20.44N	136.19W			12/25/77					168.79W		•000		
55	12/25/77	1022			19.69N	137.06W			12/25/77				13.385	169.72W		•000		
	12/25/77 12/25/77				18.93N	137.91W			12/25/77					170.63W		.001		
	12/25/77				18.16N 17.37N	138.76W 139.62W			12/25/77				-	171.47W		.000 .006		
	12/25/77				16.96N	140.06W			12/25/77					172.28W		.004		
	12/25/77				16.55N	140.50W			12/25/77					172.61W		.000		
	12/25/77				16.12N	140.96W		.005	12/25/77					172.95W		.000		
	12/25/77				15.69N	141.41W			12/25/77		10:05			173.65W		.000		
	12/25/77				14.82N	142.33W			12/25/77		10:15			174.35W		.000		
	12/25/77				13.93N	143.25W			12/25/77					175.08W		.000		
	12/25/77	1133			13.04N	144.16W		.012	12/25/77		10:35			175.75W	-59.	.000		
	12/25/77	1143	4:41	350	12.13N	145.08W	-43.	•002	12/25/77	1742	10:40	410	22.745	176.06W	-59.	.000		
	12/25/77	1148	4:46	351	11.68N	145.53W	-43.	.006	12/25/77	1747	10:45	410	23.335	176.39W	-59.	.000		
	12/25/77	1154	4:52	370	11.08N	146.13W	-48.	•005	12/25/77	1752A	10:50	410	23.885	176.69W	-60.	.000		
	12/25/77	1204	5:02	370	10.16N	147.04W	-48.	.005	12/25/77		10:58			177.24W		.000		
	12/25/77	1214	5:12	370	9.22N	147.97W	-48.	.000	12/25/77	1805	11:03	409	25.438	177.57W	-59.	.000		
	12/25/77	_	5:22	370	8.28N	148.88W	-48.	.001	12/25/77		11:13			178.24W		.000		
	12/25/77	_	5:32			149.80W		.001	12/25/77	-	-		•	178.89W		.018		
	12/25/77	_	5:37		-	150.25W		.004	12/25/77		-			179.55W		•000		
	12/25/77		5:42		6.39N	150.70W		.000	12/25/77				-			.011		
	12/25/77		5:47			151.15W		.001	12/25/77					179.43E		.000		
	12/25/77	_	5:52			151.59W		•006	12/25/77					179.09E		.001		
	12/25/77	-	6:02			152.46W		.001	12/25/77							.000		
	12/25/77	1324	6:22	390	2.68N	154.23W	-53•	.004	12/25/77	1925	12:23	430	J4.15S	1/6.90E	-58.	.020		

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .022 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 93
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

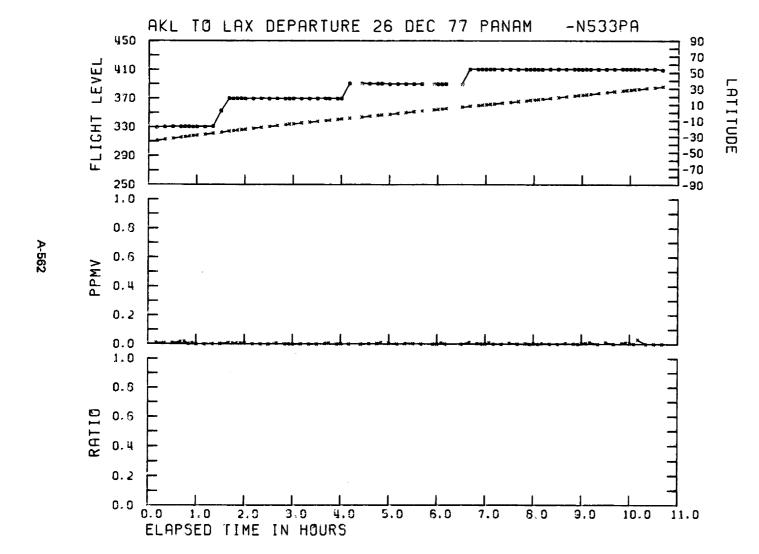
12/25/77 1935 12:33 430 35.255 176.11E -54. .022 12/25/77 1935 12:33 430 35.255 176.11E -54. .022

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .030 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 19
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) (C) CABIN AMB.	RATIO MO/DA/YR		ETIM FL R:MN	LAT	LONG TE	
12/25/77 2147 12/25/77 2157 12/25/77 2207 12/25/77 2217 12/25/77 2222 12/25/77 2227 12/25/77 2232 12/25/77 2237 12/25/77 2247		172.64E -56014 171.09E -55017 169.54E -59015 167.98E -59025 167.22E -58011 166.48E -61028 165.74E -63018 165.00E -63009 163.51E -64020	12/25/77 12/25/77 12/25/77 12/25/77 12/25/77 12/25/77 12/25/77 12/25/77 12/25/77	2307 2317 2322 2327 2332 2337 2347 2357	1:45 430 1:50 430 1:55 430 2:00 430 2:10 430 2:20 430	35.55S 35.31S 35.18S 35.04S 34.90S 34.75S 34.45S 34.21S	162.06E -6 160.59E -6 159.15E -6 158.42E -6 157.69E -6 156.96E -6 156.24E -6 154.84E -5 153.43E -5 152.71E -4	3011 2009 2004 2013 3028 3030 9019

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .010 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 13
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	_	MO/nA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	
12/26/77 12/26/77 12/26/77 12/26/77 12/26/77 12/26/77	0544 0555 0605 0615	0:25 4 0:36 4 0:46 4 0:56 4	10 10 10	34.79S 35.15S 35.46S 35.75S	154.62E 156.36E 158.26E 160.01E 161.78E 163.52E	-60. -61. -61.	.006 .007 .010 .009		12/26/77 12/26/77 12/26/77 12/26/77 12/26/77 12/26/77 12/26/77	0640 0645 0650 0655 0705	1:21 1:26 1:31 1:36 1:46	410 410 410 410 410	36.345 36.435 36.535 36.615 36.775	167.04E 167.93E 168.82E 170.67E	-65. -65. -63. -59.	.006 .001 .001 .007	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .031 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 78
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MQ/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) CABIN AMB.	
12/26/77	0954	0:13	330	34.835	176.42E	-46.	•009		12/26/77	1522	5:41	390	2.16N	154.72W	-53.	.000	
12/26/77	1004			33.505	177.35E		.007		12/26/77		5:56	390	3.68N	153.25W		.000	
12/26/77	1014			32.175	178.26E		.008		12/26/77	1542	6:01	390	4.12N	152.71W		.000	
12/26/77	1024	0:43	330	30.895	179.10E	-42.			12/26/77	1547	6:06	390	4.60N	152.22W	-55.	.008	
12/26/77	1029	0:48	331	30.245	179.52E	-42.	.018		12/26/77	1552	6:11	390	5.13N	151.80W	-54.	.000	
12/26/77	1034	0:53	331	29.585	179.93E	-41.	.002		12/26/77	1612	6:31	390	7.11N	150.01W	-54.	.000	
12/26/77	1039	0:58	330	28.945	179.66W	-39.	.007		12/26/77	1622	6:41	410	8.13N	149.02W	-60.	.010	
12/26/77	1044	1:03	330	28.31S	179.28W	-39.	.000		12/26/77	1632	6:51	410	9.12N	148.06W	-60.	.004	
12/26/77	1054	1:13	330	27.05S	178.52W	-38.	.000		12/26/77	1637	6:56	410	9.60N	147.59W	-60.	.001	
12/26/77	-	1:23	331	25.775	177.77W	-37.	.001		12/26/77	1642	7:01	410	10.09N	147.11W	-60.	.002	
12/26/77		1:33	353	24.495	177.04W	-43.	.004		12/26/77	1647	7:06	410	10,57N	146.63W	-61.	•009	
12/26/77				23.235	176.33W		.008		12/26/77				11.07N	146.14W		.000	
12/26/77				22.615	175.99W		.006		12/26/77				12.07N	145.14W		.000	
12/26/77				22.005	175.66W		•006		12/26/77				13.05N	144.14W		•007	
12/26/77				21.385	175.32W		.006		12/26/77				14.04N	143.14W		.001	
12/26/77	_			20.805	174.95W		.006		12/26/77				15.04N	142.10W		•004	
12/26/77	_			19.66S	174.17W		•002		12/26/77				15.55N	141.56W		•000	
12/26/77				18.505	173.40W		.000		12/26/77				16.06N	141.02W		•004	
12/26/77				17.325	172.62W		•000		12/26/77				16.57N	140.48W		•000	
12/26/77				16.165	171.87W		•005		12/26/77				17.08N	139.92W		•005	
12/26/77				14.975	171.11W		.001		12/26/77	-			18.14N	138.78W		.001	
12/26/77	1239			14.445	170.77W		.001		12/26/77				19.21N	137.59W		•000	
A 12/26/77	1244			13.885	170.23W		•000		12/26/77				20.28N	136.39W		•006	
2 12/26/77				12.895	169.22W		.001		12/26/77	_			21,32N	135.18W		•002	
12/26/77				11.915	168.23W		.000		12/26/77				21.85N	134.56W		•000	
12/26/77				10.915	167.23W		•000		12/26/77				22.38N	133.93W		•005	
12/26/77		3:43			166.24W		.005		12/26/77				22.91N	133.29W		• 0 0 5	
12/26/77		3:48		9.425	165.75W		.006		12/26/77				23.44N	132.64W		.011	
12/26/77		3:58		8.425	164.78W		.001		12/26/77				24.51N	131.31W		•000	
12/26/77		4:03		7.915	164.30W		.002		12/26/77				25.57N	129.95W		.011	
12/26/77		4:13		6.925	163.35W		.000		12/26/77				26.61N	128.57W		.001	
12/26/77	_	4:28		5.405	161.90W		.000		12/26/77				27.62N	127.21W		•007	
12/26/77		4:38		4.355	161.02W		.002		12/26/77				28.12N	126.51W		•009	
12/26/77		4:48		3.315	160.13W		.004		12/26/77	_			28.61N	125.81W		•005	
12/26/77				2.845	159.59W		.009		12/26/77				29.09N	125.12W		.001	
12/26/77		5:01		1.995	158.68W		.005		12/26/77				29.58N	124.41W		.031	
12/26/77		5:11		•97S	157.68W		.000		12/26/77				30.55N	122.96W		.000	
12/26/77	_	5:21		•09N	156.68W		.004		12/26/77	_	10:31			121.50W		•000	
12/26/77	1215	5:31	390	1.13N	155.69W	-54.	.002		12/26/77	2022	10:41	409	32.61N	120.18W	-01•	•000	

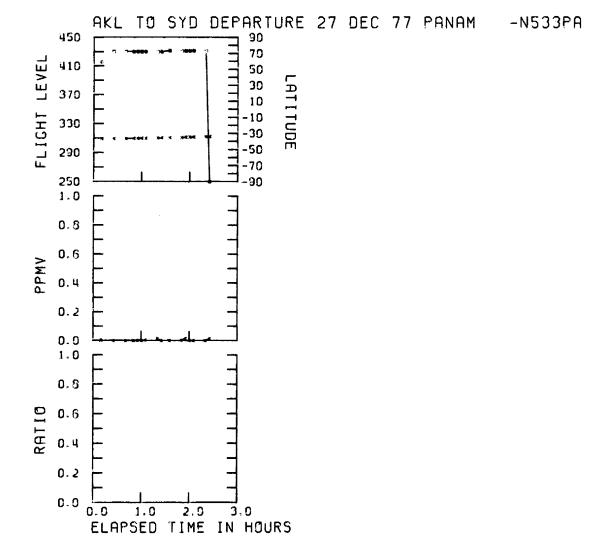
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .01] RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 93 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR	GMT	ETIM HR:MN	FL (	LAT	LONG	TEMP	OZONE ( CABIN	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (P CABIN	PMV) AMB.	RATIO
12/27/77	0752	0:10 3	21 32	2.79N	120.05W	-42.	.011		12/27/77	1357	6:15	350	7.34N	158.39W	-43.	.000		
12/27/77		0:20 3			121.13W		.007		12/27/77		6:25	_	6.41N	159.31W		.000		
12/27/77	0812	0:30 3	21 31	1.79N	122.19W	-42.	.008		12/27/77	1417	6:35	350	5.77N	160.46W		.005		
12/27/77	0855	0:40 3	21 31	1.28N	123.25W	-42.	.011		12/27/77	1422	6:40	367	5.39N	161.02W	-45.	.007		
12/27/77	0827	0:45 3	20 31	1.07N	123.83W	-42.	.011		12/27/77	1427	6:45	370	4.87N	161.43W	-47.	•006		
12/27/77		0:50 3			124.46W	-42.	.011		12/27/77		6:50	370	4.33N	161.88W	-47.	•004		
12/27/77		0:55 3			125.09W		.011		12/27/77		7:05		2.73N	163.19W	-47.	.000		
12/27/77		1:00 3			125.73W		.010		12/27/77		7:15		1.64N	164.08W		•000		
12/27/77		1:10 3			126.96W		.005		12/27/77		7:40		1.265	165.87W		.005		
12/27/77		1:25 3			128.82W	. —	.011		12/27/77		7:45		1.895	166.10W		•000		
12/27/77		1:35 3			130.16W		.009		12/27/77		7:50		2.535	166.33W		•000		
12/27/77		1:40 3			130.82W		.008		12/27/77		8:00		3.795	166.79W		• 0 0 0		
12/27/77 12/27/77		1:45 3			131.48W		.008		12/27/77		8:10		5.045	167.24W		.000		
12/27/77		1:50 3 1:55 3			132.16W		•000		12/27/77		8:20		6.355	167.72W		•000		
12/27/77		2:05 3			132.84W 134.17W		.003		12/27/77 12/27/77		8:30 8:35		7.645 8.285	168.19W		•000		
12/27/77	-	2:15 3			135.49W		.000		12/27/77		8:40		8.915	168.43W		•002 •000		
12/27/77		2:25 3			136.81W		.002		12/27/77		8:45		9.585	168.69W		•000		
12/27/77		2:35 3			137.92W		.006		12/27/77				10.205	168.76W		.000		
12/27/77		2:40 3			138.48W		.005		12/27/77				11.305	169.59W		•000		
12/27/77		2:45 3			139.03W		.001		12/27/77	-			12.505	170.21W		•000		
12/27/77	1037	2:55 3			140.12W		.000		12/27/77	-			14.345	170.71W		•000		
ਨੂੰ 12/27/77	1047	3:05 3			141.18W	_	.000		12/27/77				14.865	171.00W		.000		
8 12/27/77	1057	3:15 3	50 23	3.33N	142.20W	-50.	.000		12/27/77	1717	9:35	409	15.405	171.38W	-58.	.000		
12/27/77		3:25 3			143.21W	-49.	.000		12/27/77	1722	9:40	409	15.965	171.74W	-57.	.001		
12/27/77	_	3:35 3			144.22W	-49.	.000		12/27/77	1727	9:45	409	16.515	172.11W	-57.	•004		
12/27/77		3:40 3			144.71W		.000		12/27/77				17.055	172.46W		.000		
12/27/77	_	3:45 3			145.18W		.000		12/27/77					173.19W		.000		
12/27/77		3:50 3		-	145.61W		.000		12/27/77		-		19.295	173.93W		.002		
12/27/77		4:05 3			146.87W		.009		12/27/77				20.415	174.69W		• 0 0 4		
12/27/77		4:15 3			147.66W		.000		12/27/77	_			21.545	175.43W		•000		
12/27/77		4:25 3			148.45W		.000		12/27/77				22.145	175.75W		•004		
12/27/77		4:35 3			149.23W		.001		12/27/77				22.725	176.07W		•000		
12/27/77 12/27/77		4:40 3 4:45 3			149.63W		•000		12/27/77				23.305	176.39W		.010		
12/27/77		4:50 3			150.02W 150.48W		.003		12/27/77 12/27/77	_	10:50 11:00		-	176.70W		•000		
12/27/77		4:55 3			150.95W		.000		12/27/77		11:10		_	177.99W		•000 •000		
12/27/77		5:05 3			151.88W		.000		12/27/77	-	11:20			178.64W		.000		
12/27/77		5:15 3			152.82W		.000		12/27/77	_	11:30			179.29W		•000		
12/27/77		5:30 3		-	154.23W		.001		12/27/77		-		28.915	179.62W		.002		
12/27/77		5:35 3			154.70W		.002		12/27/77		11:40			179.95W		•000		
12/27/77		5:40 3			155.17W	_	.002		12/27/77				29.975	179.72E		•000		
12/27/77	-	5:45 3			155.64W		.000		12/27/77		12:00			178.73E		.001		
12/27/77	_	5:50 3		9.63N	156.10W		.000		12/27/77		12:10			178.08E		•000		
12/27/77		6:00 3			157.01W		.000		12/27/77		12:21			177.32E		.002		
12/27/77		6:10 3		-	157.93W		.000		12/27/77		12:31			176.67E		•000		
46/6		0.10 3	J ,			7.7.			- L / / / / /			. • •	_ , , , , , ,		•	3000		

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\* CABIN OZONE= .011 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) - .00 TOTAL OBS IN CABIN: 93
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

12/27/77 2018 12:36 409 35.16S 176.32E -57. .005 12/27/77 2018 12:36 409 35.16S 176.32E -57. .005



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .014 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 16
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL LAT HR:MN		DZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR	-	ETIM F HR:MN	L LAT			OZONE (PPMV) CABIN AMB.	RATIO
12/27/77 2255 12/27/77 2314 12/27/77 2325 12/27/77 2335 12/27/77 2344 12/27/77 2354 12/27/77 2354 12/28/77 0005	0:10 416 36.89S 0:29 430 36.69S 0:40 430 36.54S 0:50 430 36.38S 0:59 430 36.20S 1:04 430 36.10S 1:09 430 36.00S 1:20 430 35.79S	169.66E -59. 168.12E -59. 166.58E -58. 165.05E -57. 164.31E -56. 163.58E -56.	.004 .000 .000 .000 .001 .000	12/28/77 ( 12/28/77 ( 12/28/77 ( 12/28/77 ( 12/28/77 ( 12/28/77 ( 12/28/77 ( 12/28/77 (	0024 0035 0044 0049 0054	1:39 43 1:50 43 1:59 43 2:04 43 2:09 43 2:20 43	2 35.325 1 35.065 1 34.795 1 34.655 2 34.505 1 34.245	160.66E 159.23E 157.82E 156.43E 155.75E 155.07E 153.65E 152.53E	-55. -52. -53. -52. -54. -51.	.000 .000 .003 .014 .001 .000	

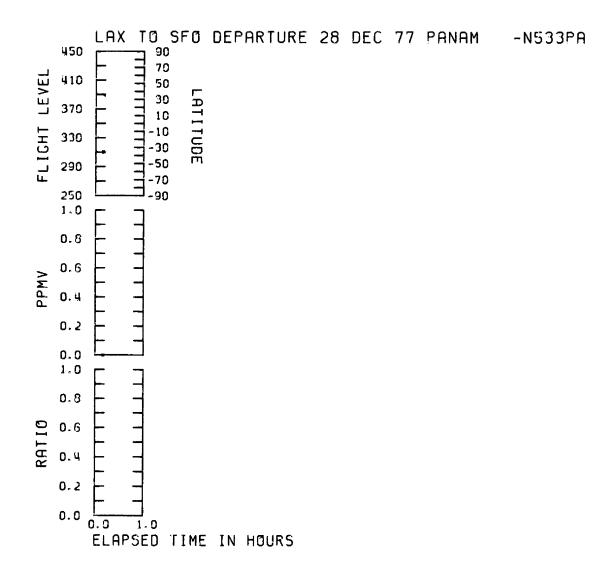
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .014 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 12 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP (C)	OZONE (PPMV) RATIO CABIN AMB.
12/28/77 0533 12/28/77 0547 12/28/77 0557 12/28/77 0607 12/28/77 0617 12/28/77 0627	0:24 410 34.69\$ 0:34 410 35.04\$ 0:44 410 35.38\$ 0:54 410 35.69\$	155.89E -47. 157.67E -49. 159.49E -49. 161.34E -53.	.011 .005 .001 .011	12/28/77 0632 12/28/77 0637 12/28/77 0647 12/28/77 0657 12/28/77 0707 12/28/77 0717	1:09 410 36.09S 1:14 410 36.21S 1:24 410 36.42S 1:34 410 36.60S 1:44 410 36.76S 1:54 375 36.90S	165.03E -52. 166.85E -54. 168.68E -55. 170.49E -56.	.000 .000 .000 .000

LATITUDE

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .037 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 76
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

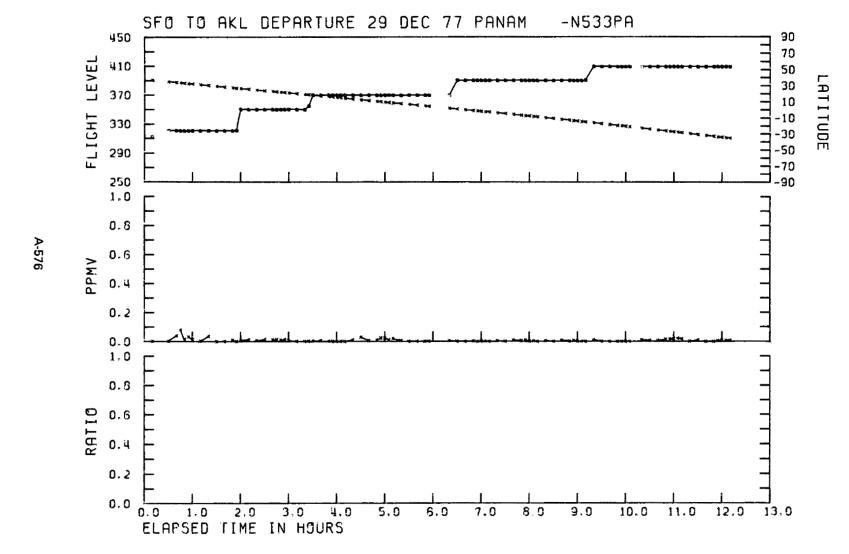
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO
12/28/77	0947	0:10	311	35.06S	176.25E	~40.	•005		12/28/77	1437	5:00	370	1.695	158.10W	~49.	.001	
12/28/77		-		33.855	177.11E		.008		12/28/77		5:10		.625	157.12W		•000	
12/28/77				32.565	178.00E	-	.007		12/28/77		5:30		1.52N	155.17W		.001	
12/28/77	-	-		31.245	178.88E		.008		12/28/77	1517	5:40	370	2.59N	154.16W	-49.	.000	
12/28/77				30.595	179.31E		.007		12/28/77		5:45	390	3.12N	153.66W	-54.	.009	
12/28/77	1027	0:50	350	29.935	179.73E	-42.	•006		12/28/77	1527	5:50	390	3.65N	153.15W	-53.	.002	
12/28/77	1035	0:55	351	29.265	179.85W	-42.	.008		12/28/77	1532	5:55	390	4.18N	152.64W	-54.	.002	
12/28/77	1037	1:00	351	28.60S	179.43W	-41.	.007		12/28/77	1537	6:00	390	4.72N	152.13W	-54.	.010	
12/28/77	1047	1:10	350	27.265	178.62W	-42.	.000		12/28/77	1547	6:10	390	5.78N	151.10W	-54.	.006	
12/28/77		1:20	351	25.935	177.84W	-42.	.000		12/28/77	1607	6:30	390	7.93N	149.02W	-53.	•000	
12/28/77	1107	1:30	350	24.625	177.09W	-42.	.000		12/28/77	1622	6:45	390	9.52N	147.46W	-54.	•000	
12/28/77		-		23.305	176.35W		.001		12/28/77				10.06N	146.93W		.010	
12/28/77				22.635	175.98W		•000		12/28/77				11.67N	145.33W		•002	
12/28/77				21.97S	175.63W		•000		12/28/77				12.76N	144.23W		.010	
12/28/77				21.335	175.27W		•000		12/28/77				13.97N	142.98W		.001	
12/28/77				20.71S	174.86W		•007		12/28/77				15.08N	141.83W		.000	
12/28/77				19.505	174.03W		•002		12/28/77				16.17N	140.66W		.002	
12/28/77		_		18.295	173.21W		.037		12/28/77				17.27N	139.48W		.005	
12/28/77				17.085	172.42W		.001		12/28/77				18.37N	138.28W		.001	
12/28/77		_		15.875	171.63W		.000		12/28/77				18.89N	137.70W		•006	
12/28/77		-		15.265	171.24W		•005		12/28/77				19.40N	137.12W		•000	
12/28/77	1227			14.675	170.87W		.004		12/28/77				19.94N	136.52W		.000	
A 12/28/77				14.135	170.43W		•000		12/28/77	-			20.47N	135.91W		.000	
ದೆ 12/28/77				13.635	169.92W		.010		12/28/77				21.50N	134.72W		•007	
12/28/77	_			12.665	168.92W		•000		12/28/77	-			22.55N	133.48W		•000	
12/28/77				11.715	167.90W		.000		12/28/77				23.60N	132.19W		.002	
12/28/77		-		10.915	166.82W		•006		12/28/77				24.41N	131.18W	_	•005	
12/28/77		3:40			165.99W		.001		12/28/77				24.96N	130.49W		.000	
12/28/77		3:45			165.52W		•002		12/28/77				25.44N	129.86W		.011	
12/28/77		3:50			165.02W		.000		12/28/77				25.94N	129.21W		.002	
12/28/77		3:55			164.52W		•000		12/28/77				26.42N	128.58W		•006	
12/28/77	-	4:00			164.03W		.000		12/28/77	-			26.90N	127.93W		.016	
12/28/77	_	4:10			163.06W		•002		12/28/77	-			27.86N	126.63W		.005	
12/28/77		4:20			162.09W		.002		12/28/77				28.80N	125.30W		.001	
12/28/77	_	4:40			160.11W		.007		12/28/77		_		29.73N	123.96W		.000	
12/28/77		4:45			159.63W		.000		12/28/77				31.10N	121.91W		•006	
12/28/77		4:50			159.13W		.001		12/28/77		-		31.54N	121.22W		.002	
12/28/77	1432	4:55	310	2.225	158.58W	-49.	.005		12/28/77	2002	10:52	410	31.98N	120.53W	<b>~</b> 50.	•000	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE=0.000 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 0.00 TOTAL OBS IN CABIN: 1
DATA SOURCE: GASP TAPE VL014. FILE 1

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

12/28/77 2252 0:13 311 35.27N 120.59W -52. .000



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .080 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 92
DATA SOURCE: GASP TAPE VL014, FILE 1 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO
12/29/77	0706	0:10	313	36.47N	124.13W	-51.	.003		12/29/77	1326	6:30	391	.76N	156.05W	-55.	.000		
12/29/77				34.57N	126.21W				12/29/77		6:40		.165	156.92W		.000		
12/29/77				33.61N	127.21W				12/29/77		6:50	390	1.095	157.81W	-55.	.002		
12/29/77	0741			33.15N	127.68W	-51.	.080		12/29/77	1351	6:55	390	1.555	158.24W	-56.	.000		
12/29/77	0746	0:50	320	32.67N	128.17W	-50.	.017		12/29/77	1356	7:00	391	2.025	158.69W	-55.	.000		
12/29/77		0:55	321	32.20N	128.63W	<b>-50</b> •	.033		12/29/77		7:05		2.495	159.14W	-55.	.001		
12/29/77		1:00	321	31.74N	129.09W	-49.	.014		12/29/77	1406	7:10		2.975	159.58W	-55.	.000		
12/29/77				30.81N	129.98W				12/29/77		7:20		3.905	160.48W		.005		
12/29/77				29.88N	130.84W				12/29/77		7:30	-	4.855	161.38W		•000		
12/29/77				28.93N	131.70W				12/29/77		7:40		5.835	162.31W		•009		
12/29/77				27.97N	132.55W				12/29/77		7:50		6.875	163.16W		.006		
12/29/77				27.04N	133.36W				12/29/77		7:55		7.345	163.64W		.010		
12/29/77 12/29/77				26.57N	133.75W				12/29/77		8:00 8:05		7.81S 8.29S	164.14W		•002		
12/29/77				26.12N 25.22N	134.14W 134.88W				12/ <sub>2</sub> 9/77 12/ <sub>2</sub> 9/77		8:10		8.825	164.62W		•004		
12/29/77				24.31N	135.63W				12/29/77		8:20		9.875	165.85W		•000 •005		
12/29/77				23.39N	136.37W				12/29/77			_	10.925	166.67W		•000		
12/29/77				22.45N	137.12W				12/29/77				11.975	167.49W		.009		
12/29/77	_			21.98N	137.48W		.013		12/29/77				13.025	168.33W		.001		
12/29/77				21.52N	137.84W		.010		12/29/77				13.545	168.75W		.006		
12/29/77	0951	2:55	350	21.06N	138.20W	-49.	.014		12/29/77	1556	9:00	390	14.075	169.17W	-53.	.001		
12/29/77	0956	3:00	350	20.60N	138.55W	-49.	.006		12/29/77	1601	9:05	390	14.605	169.61W	-53.	.001		
\$ 12/29/77		3:10	350	19.66N	139.27W	-49.	.000		12/29/77	1606		_	15.138	170.04W	-53.	.000		
3 12/29/77		-		18.72N	140.03W		.000		12/29/77				16.195	170.91W		.012		
12/29/77				18.25N	140.40W		.002		12/29/77				17.245	171.79W		.000		
12/29/77	-			17.79N	140.76W		.004		12/29/77				-	172.68W		•000		
12/29/77				16.85N	141.50W		.006		12/29/77					173.59W		.000		
12/29/77				15.92N	142.22W		.002		12/29/77				19.865	174.04W		•000		
12/29/77 12/29/77				15.44N 14.95N	142.58W		.000		12/ <sub>2</sub> 9/77 12/ <sub>2</sub> 9/77					174.50W		•000		
12/29/77	-			14.46N	142.95W 143.32W		.000		12/29/77					175.92W		.010		
12/29/77				13.98N	143.69W		.000		12/29/77					176.64W		.007		
12/29/77				12.97N	144.43W		.010		12/29/77		_			177.36W		•007		
12/29/77				11.97N	145.24W		.031		12/29/77					178.04W		.014		
12/29/77				11.05N	146.16W		.005		12/29/77					178.39W		.017		
12/29/77	_			10.11N	147.08W		.010		12/29/77	_				178.73W		.019		
12/29/77		4:55		9.65N	147.54W		.024		12/29/77	1801	11:05	410	27.975	179.07W	-56.	.021		
12/29/77	1156	5:00	.370	9.18N	148.00W	-49.	.023		12/29/77	1806	11:10	410		179.42W		.017		
12/29/77	1201	5:05	370	8.72N	148.45W	-49.	.011		12/29/77	1816	11:20	410	29.665	179.88E	-56.	.001		
12/29/77	1206	5:10	370	8.25N	148.91W	-49.	.020		12/29/77					179.17E	_	.010		
12/29/77	1216	5:20	370	7.30N	149.83W	-48.	.005		12/29/77	_				178.43E	_	.000		
12/29/77		5:30		6.37N	150.73W		.000		12/29/77					177.70E		.000		
12/29/77		5:40		5.43N	151.63W		.000		12/29/77					177.31E		.005		
12/29/77		5:50		4.49N	152.52W		.001		12/29/77		-			176.92E		.007		
12/29/77		5:55		4.02N	152.96W		.000		12/29/77	_				176.52E		•007		
12/29/77	1316	6:20	370	1.69N	155.17W	-49.	.005		12/29/77	1906	15:10	410	35.255	176.12E	-53.	•006		

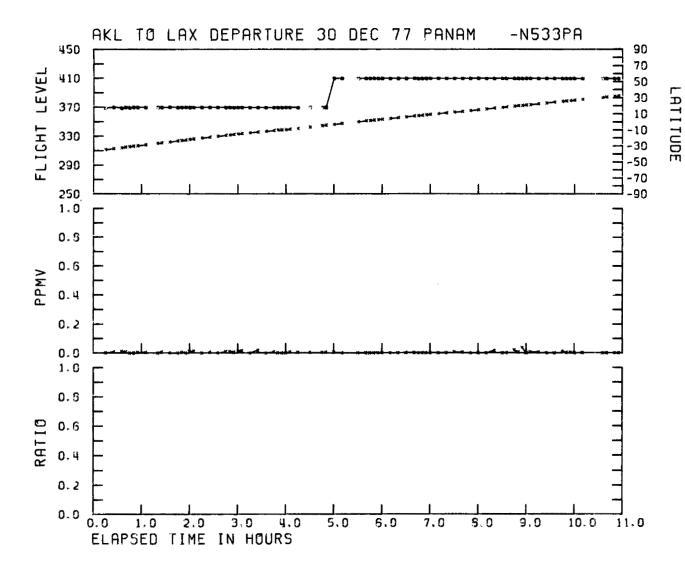
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .027 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 14 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN		(PPMV) RATIO MO/DA/YR AMB•	R GMT ETIM HR:MN		LONG TEMP	OZONE(PPMV) RATIO CABIN AMB.
12/29/77 2120 12/29/77 2130 12/29/77 2140 12/29/77 2153 12/29/77 2213 12/29/77 2223 12/29/77 2233		167.90E -50000 164.88E -50015 163.43E -51013	12/29/77 12/29/77 12/29/77 12/29/77	7 2253 1:43 7 2308 1:58 7 2318 2:08 7 2323 2:13 7 2328 2:18	430 35.29S 430 34.88S 430 34.58S 430 34.42S 430 34.28S	161.25E -53. 159.02E -55. 156.84E -56. 155.37E -57. 154.62E -58. 153.87E -58. 153.11E -51.	.011 .000 .019 .027 .015

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .012 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 12
DATA SOURCE: GASP TAPE VL014, FILE 1

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
12/30/77 0535A 12/30/77 0541 12/30/77 0551 12/30/77 0601 12/30/77 0621 12/30/77 0631	0:12 331 34.30S 0:22 331 34.66S 0:32 331 35.00S 0:52 410 35.62S	153.07E -51000 154.02E -49000 155.74E -49000 157.46E -50000 160.96E -55000 162.76E -53000	12/30/77 0651 1:22 410 36.37S 12/30/77 0701 1:32 410 36.57S 12/30/77 0711 1:42 410 36.74S 12/30/77 0716 1:47 410 36.81S	164.59E -51000 166.47E -51007 168.38E -49010 170.30E -47012 171.25E -47012 172.23E -48000



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .036 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 79
DATA SOURCE: GASP TAPE VL014, FILE 1

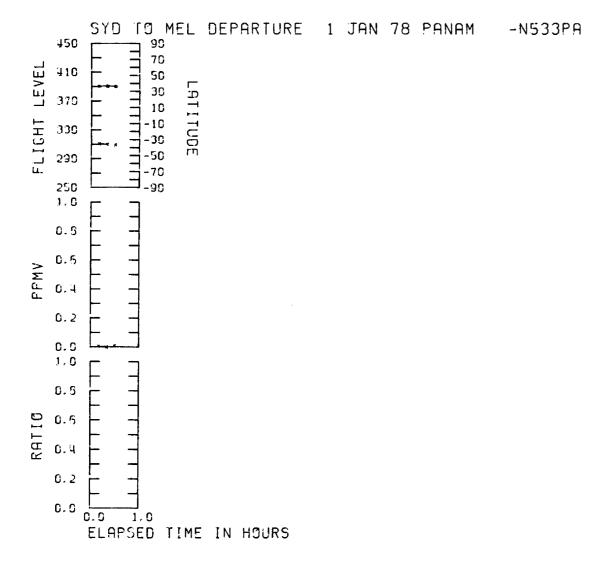
MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (PPMV)	RATIO	MO/DA/YR	GMT	ETIM	FL	LAT	LONG	TEMP	OZONE (PPMV)	RATIO
		HR: MN				(C)	CABIN AMB	•			HR:MN				(C)	CABIN AMB.	
12/30/77	-			34.685	176.53E		.002		12/30/77		5:44	_				•000	
12/30/77				33.515	177.35E		.008		12/30/77		5:49		1.54N	155.30W		•000	
12/30/77	_			32.305	178.17E		.012		12/30/77		5:54			154.82W		•000	
12/30/77				31.695	178.58E		.008		12/30/77		5:59		-	154.33W		•000	
12/30/77				31.085	178.97E		.000		12/30/77		6:04		3.08N	153.85W		•000	
12/30/77	_			30.485	179.36E		.001		12/30/77	-	6:14		-	152.90W		•000	
12/30/77				29.895	179.74E		.005		12/30/77		6:24		5.10N	151.94W		•000	
12/30/77				28.695	179.51W		.004		12/30/77		6:34		6.10N	151.00W		•002	
12/30/77				26.855	178.40W		.000		12/70/77		6:44	-	7.05N	150.07W		.001	
12/30/77				26.245	178.04W		.008		12/30/77		6:49			149.59W		•000	
12/30/77				25.125	177.39W		.001		12/30/77		6:54		8.03N	149.12W		•000	
12/30/77		-		23.795	176.64W		•000		12/30/77		6:59		8.53N	148.64W		•000	
12/30/77	_			23.195	176.31W		.006		12/30/77		7:04			148.17W		•000	
12/30/77 12/30/77				22.595	175.98W		.000		12/30/77				9.97N 10.94N	147.23W		•000	
12/30/77				21.985	175.65W 175.32W		.011 .012		12/30/77 12/30/77					146.27W		.000	
12/30/77				20.245	175.32W				12/30/77				12.90N	144.29W		•007 •004	
12/30/77				19.115	173.81W				12/30/77	-			13.91N	143.26W		•000	
12/30/77				17.115	173.06W				12/30/77					142.23W		•000	
12/30/77				16.855	172.32W				12/30/77				15.89N	141.20W		.000	
12/30/77	_			16.275	171.94W				12/30/77				16.89N	140.13W		.016	
12/30/77	_			15.705	171.57W				12/30/77				•	139.04W		•000	
₹ 12/30/77	1225			15.145	171.21W				12/30/77				18.41N	138.48W		•000	
8 12/30/77	1230			14.575	170.85W				12/30/77				19.42N	137.36W		.020	
12/30/77				13.605	169.95W				12/30/77				19.92N	136.80W		.005	
12/30/77				12.665	168.99W		.018		12/30/77				20.40N	136.24W		.036	
12/30/77				11.695	168.01W		.000		12/20/77		9:04	410	20.89N	135.68W	-54.	•000	
12/30/77	1310	3:45	370	10.745	167.06W	-47.	.007		12/30/77	1834	9:09	410	21.37N	135.12W	-53.	•006	
12/30/77	1315	3:50	370	10.275	166.60W	-47.	.002		12/30/77	1844	9:19	410	22.36N	133.95W	-54.	.004	
12/30/77	1320	3:55	370	9.975	166.00W	-47.	.000		12/30/77	1854	9:29	410	23.38N	132.71W	-56.	.000	
12/30/77	1325	4:00	370	9.695	165.39W	-48.	.001		12/30/77	1904	9:39	410	24.41N	131.44W	-57.	•000	
12/30/77	1330	4:05	370	9.205	164.93W	-47.	.006		12/30/77	1914	9:49	410	25.43N	130.13W	-56.	.011	
12/30/77		4:15		8.175	164.08W	-48.	.004		12/30/77				25.94N	129.47W		.002	
12/30/77		4:31	370	6.515	162.73W	-48.	.004		12/30/77				26.44N	128.81W		•004	
12/30/77		4:49		4.675	161.02W		.004		12/30/77				26.93N	128.14W		•000	
12/30/77		4:54		4.165	160.54W		.005		12/30/77		-		27.91N	126.80W		.001	
12/30/77	-	5:04		3.125	159.58W		.005		12/30/77		_		30.34N	123.29W		•000	
12/30/77		5:14			158.62W		.000		12/30/77		_		30.81N	122.57W		•000	
12/30/77	1459	5:34	410	0.00N	156.71W	-59•	.000		12/30/77				31.73N	121.13W		.000	
									12/30/77	2024	10:59	410	32.15N	120.37W	-60.	.000	

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .036 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 85 DATA SOURCE: GASP TAPE VL014, FILE 1

	DA 1 A 5001		A															
	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO	MO/na/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO
	12/31/77	4813	1.10	360	32.02N	128.85W	-55	.000		12/31/77	1342	6:40	300	4.35N	161.30W	-53.	•005	
	12/31/77				31.63N	130.26W		.036		12/31/77		6:45		3.88N	161.74W		•000	
	12/31/77				31.24N	131.67W		.006		12/31/77		6:50		3.42N	162.19W		•000	
	12/31/77				30.83N	133.05W		.000		12/31/77		6:55		2.95N	162.63W		•000	
	12/31/77		_		30.62N	133.73W		.006		12/31/77		7:00	390	2.49N	163.07W	-54.	.002	
	12/31/77		1:50	359	30.41N	134.40W	-55•	.004		12/31/77	1412	7:10	390	1.57N	163.94W	-54.	.000	
	12/31/77		1:55	360	30.20N	135.06W		.009		12/31/77	1432	7:30	390	.365	165.55W	-55.	•002	
	12/31/77	0902	5:00	359	29.98N	135.72W		.004		12/31/77	143B	7:36	390	1.065	165.80W	-54.	.010	
	12/31/77				29.76N	136.39W		.012		12/31/77		7:45		2.238	166.23W	-54.	•000	
	12/31/77				29.32N	137.69W		.001		12/31/77		7:50		2.87\$	166.46W		•000	
	12/31/77				28.87N	138.95W		.000		12/31/77		7:55		3.485	166.68W		•000	
	12/31/77				27.93N	139.85W		.009		12/31/77		8:00		4.125	166.91W		.010	
	12/31/77				26.97N	140.69W		.000		12/31/77		8:10		5.405	167.37W		.002	
	12/31/77				26.49N	141.10W		.000		12/31/77		8:30		7.995	168.32W		.002	
	12/31/77				25.99N 25.50N	141.52W 141.94W		•000		12/31/77		8:40		9.298	168.80W		.001	
	12/31/77				25.00N	142.35W		.000 .012		12/31/77 12/31/77		8:45		9.94S 10.61S	169.04W		•000	
	12/31/77				23.99N	143.18W		.012		12/31/77				11.255	169.29W		.000 .004	
	12/31/77				22.97N	144.00W		.000		12/31/77				12.375	169.95W		•004	
	12/31/77				21.96N	144.80W		.011		12/31/77				13.135	170.30W		•000	
	12/31/77				20.92N	145.61W		.008		12/31/77				14.435	170.64W		.000	
	12/31/77				20.41N	146.00W		.000		12/31/77				15.605	171.37W		•000	
Š	12/31/77	1057			19.89N	146.40W		.002		12/31/77				16.715	172.16W		.000	
ğ	12/31/77	1102	4:00	390	19.38N	146.79W	-54.	.001		12/31/77		9:50	410	17.825	172.95W		.004	
	12/31/77		4:05	390	18.86N	147.18W	-54.	.009		12/71/77	1657	9:55	410	18.395	173.32W		.000	
	12/31/77	1117	4:15	390	17.81N	147.96W	-54.	.006		12/31/77	1702	10:00	410	18.975	173.71W	<b>~58</b> •	•000	
	12/31/77				16.73N	148.75W		.012		12/31/77				19.525	174.08W		•006	
	12/31/77				15.09N	149.93W		•000		12/31/77				20.115	174.42W	-57.	•000	
	12/31/77				14.65N	150.42W		•007		12/21/77					174.78W		.001	
	12/31/77				14.21N	150.93W		.012		12/31/77				21.855	175.57W		•000	
	12/31/77				13.79N	151.42W		•002		12/11/77				23.115	176.26W		•000	
	12/31/77				13.36N	151.92W		.000		12/31/77				24.365	176.96W		•000	
	12/31/77				12.51N	152.90W		.001		12/31/77				26.215	178.02W		•000	
	12/31/77				11.67N	153.85W		•004		12/31/77				26.825	178.38W		•000	
	12/31/77		5:40		10.83N 9.96N	154.80W		.000 .000		12/31/77				27.435 28.025	178.74₩ 179.10₩		•000	
	12/31/77 12/31/77		5:45		9.50N	156.24W		.000		12/31/77	_			30.385	179.10W		•015	
	12/31/77		5:55		8.56N	157.18W		.005		12/31/77				31.565	178.66E		•000 •000	
	12/31/77		6:05		7.63N	158.10W		.000		12/31/77		_		32.705	177.90E		•005	
	12/31/77		6:15		6.70N	159.02W		.006		12/31/77				33.275	177.52E		•000	
	12/31/77		6:25		5.76N	159.93W		.000		12/31/77				33.835	177.13E		.002	
	12/31/77		6:30		5.29N	160.39W		.002		12/31/77				34.385	176.74E	_	•000	
	A / J / !		5.50				J.J.			12/31/77		-			176.36E		•000	
										-						- •	- · • •	

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .018 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 18 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT ETIM HR:MN	FL LAT	LONG TEMP (C)	OZONE(PPMV) RATIO CABIN AMB.	MO/na/YR GMT	ETIM FL LAT HR:MN	LONG TEMI	P OZONE(PPMV) RATIO CABIN AMB.
12/31/77 2153 0:15 12/31/77 2203 0:25 12/31/77 2213 0:35 12/31/77 2223 0:45 12/31/77 2228 0:50 12/31/77 2233 0:55 12/31/77 2238 1:00	430 36.85S 430 36.75S 430 36.63S 430 36.48S 430 36.40S 430 36.31S 430 36.22S	172.52E -55. 171.82E -56. 170.40E -57. 168.96E -56. 167.48E -56. 166.75E -56. 166.00E -57. 165.27E -57.	.006 .000 .003 .000 .013 .006	12/31/77 2253 12/31/77 2303 12/31/77 2313 12/31/77 2323 12/31/77 2328 12/31/77 2333 12/31/77 2338 12/31/77 2343 12/31/77 2353	_	158.39E -56 157.65E -58 156.87E -57 156.12E -57 155.34E -57	000 004 000 003 011 006



DEPARTURE: 1 JAN 78

AIRCRAFT:PANAM -N533PA

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .009 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 3
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMR.

1/ 1/78 0210 0:10 391 35.35S 149.78E -58. .005 1/ 1/78 0221 0:21 391 35.94S 148.39E -60. .000 1/ 1/78 0230 0:30 390 36.55S 147.12E -61. .009

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .008 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 2
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

1/ 1/78 0412 0:10 395 36.33S 146.65E -64. .008 1/ 1/78 0422 0:20 451 35.53S 148.14E -61. .000

**LATITUDE** 

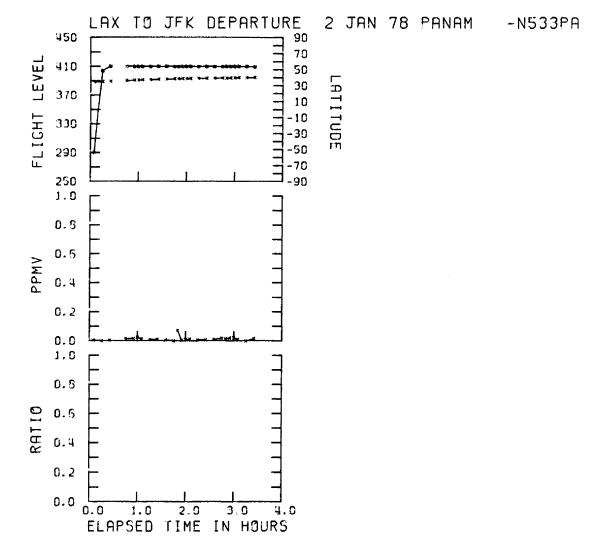
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .044 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 94
DATA SOURCE: GASP TAPE VL014, FILE 1

	. • • • • • • • • • • • • • • • • • • •			, 11	1												
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) CABIN AMB.	RATIO
1/ 1/78	1135	0:10	311	32.885	153.80E	-43.	.003		1/ 1/78	1720	6:03	360	2.79N	171.95W	-48	.001	
1/ 1/78	_			32.055	155.22E		•000		1/ 1/78		6:18		4.44N	170.67W		.000	
1/ 1/78				31.175	156.58E		.006		1/ 1/78		6:28		5.45N	169.70W	**.	•000	
1/ 1/78	_			30.735	157.24E		.008		1/ 1/78		6:38		6.36N	168.60W	-1	•000	
1/ 1/78	1210				158.52E		.010		1/ 1/78	_	6:53		7.73N	166.96W		•000	
1/ 1/78	1215	0:50	331	29.315	159.06E	-47.	.002		1/ 1/78	_	6:58		8.18N	166.41W		.000	
1/ 1/78		0:55	331	28.825	159.59E	-47.			1/ 1/78		7:03		8.64N	165.85W		.000	
1/ 1/78				28.315	160.13E	-46.	.003		1/ 1/78	1833	7:08	390	9.10N	165.28W	-55.	.000	
1/ 1/78					160.65E	-47.	.003		1/ 1/78	1843	7:18	390	10.02N	164.14W	-55.	.000	
1/ 1/78				27.305	161.16E				1/ 1/78		7:28	390	10.87N	162.94W	~55.	•000	
1/ 1/78					162.20E				1/ 1/78		7:38	390	11.70N	161.75W	-54.	•008	
1/ 1/78				25.245	163.21E		.009		1/ 1/78				12.55N	160.52W		•002	
1/ 1/78				24.215	164.19E				1/ 1/78				12.98N	159.90W		.006	
1/ 1/78				23.195	165.14E		.009		1/ 1/78				13.83N	158.64W		.001	
1/ 1/78				22.70\$	165.59E				1/ 1/78		_		14.25N	158.00W		.012	
1/ 1/78 1/ 1/78				22.195	166.05E				1/ 1/78	1943			15.12N	156.74W		.000	
1/ 1/78				21.705	166.55E 168.07E				1/ 1/78	1953			16.14N	155.62W		•000	
1/ 1/78	-		-	19.265	169.08E				1/ 1/78			_	17.16N 18.16N	154.49W		.015	
1/ 1/78					170.07E		.010		1/ 1/78				18.66N	153.35W		.000 .000	
1/ 1/78					171.05E				1/ 1/78				19.66N	151.60W		.000	
1/ 1/78				_	171.53E				1/ 1/78				20.10N	151.07W		.010	
A 1/ 1/78					172.03E				1/ 1/78					149.79W		.004	
<b>览 1/ 1/78</b>	1430				172.52E				1/ 1/78				22.14N	148.55W		.004	
1/ 1/78	1435			15.298	173.00E	-42.	.000		1/ 1/78					147.27W		.010	
1/ 1/78	1445	3:20	350	14.285	173.95E	-41.	.006		1/ 1/78				24.09N	145.98W		.000	
1/ 1/78		3:30	350	13.305	174.88E	-42.	.000		1/ 1/78	2118	9:53	410	24.57N	145.32W	-59.	.017	
1/ 1/78		3:40	350	12.335	175.77E	-41.	.000		1/ 1/78	2123	9:58	410	25.06N	144.64W	-60.	.019	
1/ 1/78				11.025	176.97E				1/ 1/78	2128	10:03	420	25.56N	143.94W	-60.	.016	
1/ 1/78		4:03	_		177.63E				1/ 1/78				26.04N	143.25W		.003	
1/ 1/78		4:13			178.66E				1/ 1/78				27.00N	141.85W		.009	
1/ 1/78		4:23			179.60E				1/ 1/78				27.95N	140.42W		•000	
1/ 1/78		4:28		7.505	179.97W		•006		1/ 1/78				28.87N	138.97W		.003	
1/ 1/78		4:33		6.965	179.55W		.004		1/ 1/78				29.46N	137.27W		•000	
1/ 1/78		4:38		6.425	179.13W		.004		1/ 1/78				29.75N	136.42W		.000	
1/ 1/78	-	4:48		5.485	178.23W		•000		1/ 1/78				30.03N	135.57₩		.009	
1/ 1/78	-	4:55		4.885	177.51W		.001		1/ 1/78		-		30.30N	134.73W		.005	
1/ 1/78 1/ 1/78		5:01		4.345	176.81W		.001		1/ 1/78				30.57N	133.89W		•000	
1/ 1/78	-	5:06		3.925	176.28W		•009		1/ 1/78				31.08N	132.19W		•003	
1/ 1/78	_	5:13		3.165	175.81W		.000		· -•				31.57N	130.48W		.019	
1/ 1/78		5:19 5:24		2.41S 1.82S	175.48W		.000 .004		1/ 1/78	_			32.03N 32.47N	128.79W		.004 .005	
1/ 1/78		5:38		•13S	174.00W		.002		1/ 1/78				32.67N	126.26W		.014	
1/ 1/78		5:48		1.13N	173.25W		.006		1/ 1/78				32.86N	125.42W		.044	
1/ 1/78	_	5:53		1.69N	172.81W		.006		1/ 1/78				33.06N	124.57W		•009	
1/ 1/78		5:58	_		172.38W		.001		1/ 1/78				-	123.71W		.000	
1/ 1/10	1,53	3.30	310	C . C 414	41 C 4 J C W	-400	* ^ ^ 1		1, 1,10		15.00	0		~ 1 1 1	- / -	4000	

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .044 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 94
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO HR:MN (C) CABIN AMB.

1/ 1/78 2338 12:13 420 33.36N 122.85w -61. .008 1/ 1/78 2348 12:23 420 33.61N 121.10w -57. .011



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .073 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 25 DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL L HR:MN		OZONE(PPMV) RATIO CABIN AMB.	MO/NA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
1/ 2/78 0311 1/ 2/78 0323 1/ 2/78 0353 1/ 2/78 0403 1/ 2/78 0408 1/ 2/78 0413 1/ 2/78 0423 1/ 2/78 0433 1/ 2/78 0443 1/ 2/78 0453 1/ 2/78 0458	0:18 404 35 0:28 410 35 0:48 410 36 0:58 410 36 1:03 410 36 1:08 410 37 1:18 410 37 1:28 410 38	5.02N 115.13W -56. 5.47N 113.39W -53. 6.35N 109.95W -53. 6.78N 108.13W -53. 6.97N 107.25W -52. 7.17N 106.33W -54. 7.54N 104.48W -51. 7.90N 102.56W -51. 8.22N 100.60W -51. 8.51N 98.62W -52.	.000 .005 .016 .016 .025 .014 .009 .011	1/ 2/78 0503 1/ 2/78 0508 1/ 2/78 0513 1/ 2/78 0523 1/ 2/78 0533 1/ 2/78 0543 1/ 2/78 0553 1/ 2/78 0558 1/ 2/78 0603 1/ 2/78 0603 1/ 2/78 0613 1/ 2/78 0623 1/ 2/78 0633	1:58 410 38.76N 2:03 410 38.88N 2:08 410 38.98N 2:18 410 39.17N 2:28 410 39.32N 2:38 410 39.44N 2:48 410 39.52N 2:53 410 39.54N 2:58 410 39.62N 3:03 410 39.75N 3:08 410 39.89N 3:18 410 40.12N 3:28 409 40.30N	96.62W -54005 95.61W -51009 94.59W -52012 92.45W -51007 90.33W -52009 88.21W -52012 86.07W -50019 85.02W -50015 83.94W -50020 82.89W -49021 81.81W -49010 79.68W -49010 77.58W -52016

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .106 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 74
DATA SOURCE: GASP TAPE VL014, FILE 1

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZONE (PPMV) RATIO CABIN AMB.	MO/na/YR (		ETIM F HR:MN	L LAT	LONG	TEMP (C)	OZONE(PPMV) RATIO CABIN AMB.
1/ 3/78 0023	0:10 312 41.22N	70.59W -48.	.016	1/ 3/78 09	547	5:34 39	0 46.66N	•59w	-65.	.036
1/ 3/78 0033	0:20 350 41.81N	68.59W -46.	.017	1/ 3/78 09			0 45.80N	1.09E		.039
1/ 3/78 0043	0:30 350 42.38N	66.51W -46.		1/ 3/78 00		5:54 39	0 45.19N	2.95E	-60.	•056
1/ 3/78 0053	0:40 350 42.92N	64.42W -42.		1/ 3/78 00		5:59 39	0 44.88N	3.88E		.051
1/ 3/78 0058	0:45 350 43.17N	63.39W -42.		1/ 3/78 00	617	6:04 39	0 44.56N	4.79E	-58.	•047
1/ 3/78 0103	0:50 350 43.42N	62.33W -42.		1/ 3/78 00	623	6:10 39	0 44.27N	5.73E	-58.	•033
1/ 3/78 0108	0:55 350 43.67N	61.26W -43.		1/ 3/78 00	638	6:25 40	0 43.18N	8.40E	-55.	•063
1/ 3/78 0117	1:04 350 44.16N	59.14W -45.		1/ 3/78 00	647	6:34 41	0 42.31N	10.03E	-59.	.060
1/ 3/78 0128	1:15 350 44.66N	57.07W -49.		1/ 3/78 00	657	6:44 4]	0 41.48N	11.71E	-59.	.061
1/ 3/78 0138	1:25 350 45.13N	54.97W -55.		1/ 3/78 0	707	6:54 4]	0 40.85N	13.45E	-61.	• 047
1/ 3/78 0148	1:35 370 45.54N	52.87W -54.	.024	1/ 3/78 0	712	6:59 41	0 40.81N	14.46E	-61.	.026
1/ 3/78 0158	1:45 370 45.90N	50.77W -57.	.010	1/ 3/78 0	717	7:04 4]	0 40.76N	15.46E	-60.	.031
1/ 3/78 0203	1:50 370 46.12N	49.73W -60.	.026	1/ 3/78 0	723	7:10 41	0 40.70N	16.44E	-61.	.019
1/ 3/78 0208	1:55 370 46.56N	48.84W -59.	.033	1/ 3/78 0	737	7:24 41	0 40.02N	19.13E	-61.	.012
1/ 3/78 0218	2:05 370 47.40N	46.93W -62.	•000	1/ 3/78 0			.0 39.06N	20.52E		.014
1/ 3/78 0228		44.90W -64.	.023	1/ 3/78 0			.0 37.95N	21.69E		•009
1/ 3/78 0238	2:25 370 49.04N	42.80W -63.	.031	1/ 3/78 0		-	.0 37.17N	23.20E		.015
1/ 3/78 0243		41.75W -66.	.014	1/ 3/78 0			0 36.90N	24.04E		.021
1/ 3/78 0253		39.61W -66.		1/ 3/78 0			0 36.49N	24.75E		.007
1/ 3/78 0258		38.48W -66.		1/ 3/78 0			0 35.37N	25.93E		.011
1/ 3/78 0308		36.22W -65.		1/ 3/78 0			0 35.03N	27.53E		.029
1/ 3/78 0317		33.87W -66.		1/ 3/78 0			0 34.98N	29.32E		.031
ធ្លែ 1/ 3/78 0323	3:10 370 51.60N	32.68W -67.		1/ 3/78 0			0 34.94N	31.11E		.092
8 1/ 3/78 0328		31.49W -66.		1/ 3/78 0			.0 34.91N	32.85E		•091
1/ 3/78 0338		29.03W -66.		1/ 3/78 0			0 34.86N	33.72E		.072
1/ 3/78 0352		25.22W -66.		1/ 3/78 0			0 34.66N	34.54E		.106
1/ 3/78 0403	3:50 370 52.12N	22.71W -67.		1/ 3/78 0			0 34.44N	35.36E		.070
1/ 3/78 0408	3:55 370 52.09N	21.47W -67.		1/ 3/78 09			0 34.27N	36.20E		.025
1/ 3/78 0417	4:04 370 51.89N	19.01W -66.		1/ 3/78 09			0 32.92N	38.60E		.001
1/ 3/78 0423	4:10 370 51.67N	17.83W -67.		1/ 3/78 0	-		.0 31.72N	38.71E		•011
1/ 3/78 0428	4:15 370 51.44N	16.68W -67.		1/ 3/78 1			.0 30.93N	41.13E		.020
1/ 3/78 0447	4:34 370 50.38N	12.28W -67.		1/ 3/78 10			0 30.55N	41.86E		.014
1/ 3/78 0457		10.19W -67.		1/ 3/78 10		_	.0 30.16N	42.61E		.014
1/ 3/78 0508		8.19W -68.		1/ 3/78 10			0 29.40N	44.09E		.012
1/ 3/78 0517		6.18W -68.		1/ 3/78 1			.0 28.64N	45.68E		•006
1/ 3/78 0523		5.17W -69.		1/ 3/78 10		-	.0 27.91N	47.22E		.001
1/ 3/78 0538	5:25 390 47.43N	2.24W -63.	.022	1/ 3/78 1	105	10:49 39	4 27.22N	48.83E	-55.	.007

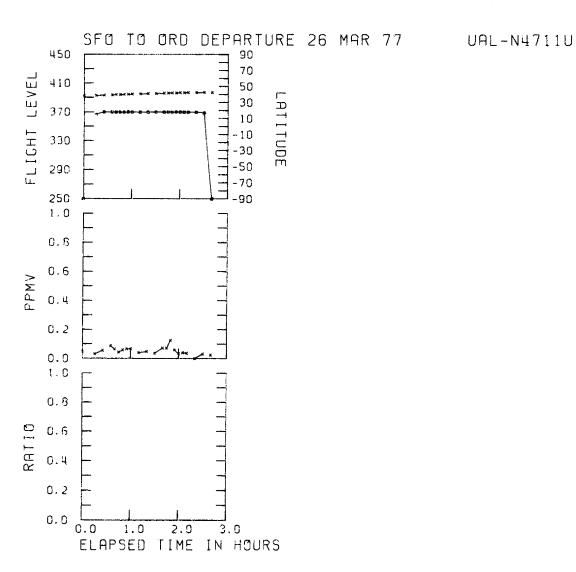
APPENDIX B - DATA PLOTS AND

TABLES OF GASP OZONE DATA

FOR BOEING 747-100 (N4711U)

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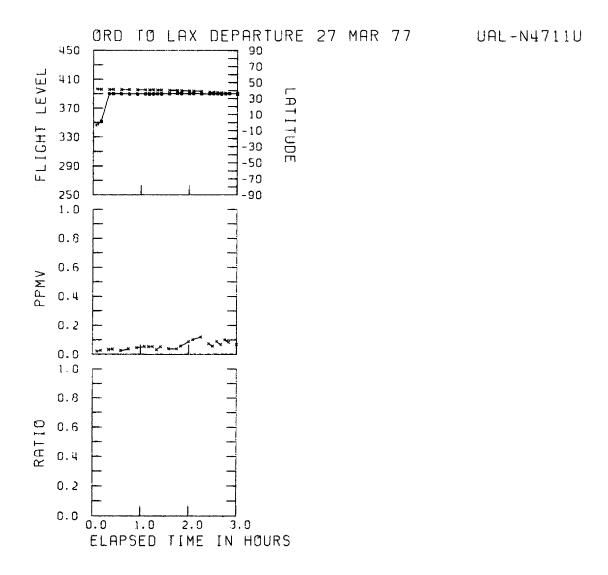
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MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .125 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 22
DATA SOURCE: GASP TAPE VL012, FILE 2

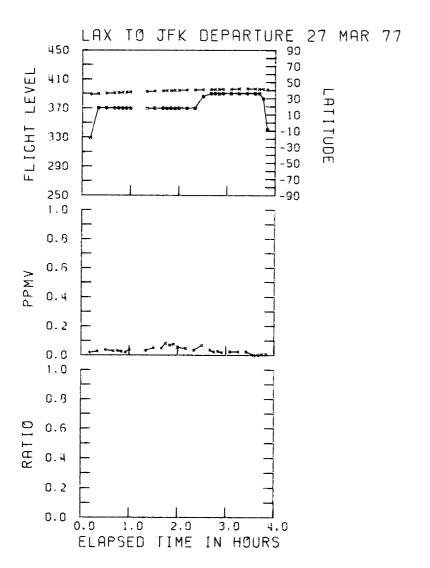
AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZUNE(PPMV) RATIO CABIN AMB.	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) F CABIN AMB.	RATIO
3/26/77	1846	0:00	805	38.09N	120.97W	-20.	.046	3/26/77	2016	·		41.17N	106.35W			
3/26/77	1901	0:15	366	38.51N	118.58W	-55.	.031	3/26/77	2026	1:40	370	41.46N	104.44W	-51.	•072	
3/26/77	1911	0:25	370	38.90N	117.11W	-56.	• 055	3/26/77	2031	1:45	370	41.60N	103.44W	-52.	•071	
3/26/77	1921	0:35	370	39.28N	115.61W	-56.	.088	3/26/77	2036	1:50	370	41.73N	102.41W	-49.	.125	
3/26/77	1926	0:40	370	39.47N	114.85W	-56.	.064	3/26/77	2041	Ĭ:55	370	41.85N	101.36W	-55.	.059	
3/26/77	1931	0:45	370	39.65N	114.08W	-56.	.044	3/26/77	2046	2:00	370	41.97N	100.26W	-55.	.032	
3/26/77	1936	0:50	370	39.83N	113.27W	-57.	.058	3/26/77	2053	2:01	370	42.12N	98.66W	-57.	.040	
3/26/77	1941	0:55	370	40.01N	112.48W	-57.	.067	3/26/77	2100	2:14	370	42.25N	97.06w	-58.	.035	
3/26/77	1946	1:00	370	40.18N	111.66W	-55	.067	3/26/77	2110	2:24	370	42.41N	94.77W	-58.	.000	
3/26/77	1956	1:10	370	40.53N	109.96W	-55.	.041	3/26/77	2120	2:34	369	42.52N	92.48W	-57.	•031	
3/26/77	2006	1:20	370	40.87N	108.15W	-55.	.048	3/26/77				42.53N	90.38W	-29.	.024	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\*\* CABIN OZONE= .120 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 25 DATA SOURCE: GASP TAPE VL012, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

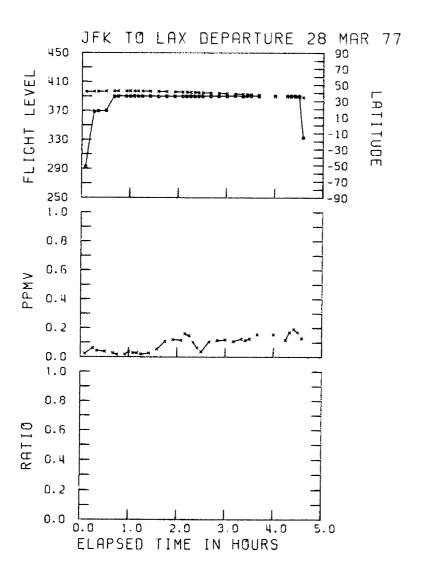
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RAT (C) CABIN AMB.	IO MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) GABIN AMB.
3/27/77 0103 3/27/77 0110 3/27/77 0117 3/27/77 0124 3/27/77 0134 3/27/77 0154 3/27/77 0204 3/27/77 0209 3/27/77 0214 3/27/77 0219 3/27/77 0224	0:07 347 41.61N 0:14 352 41.46N 0:21 390 41.41N 0:28 390 41.35N 0:38 390 41.25N 0:48 390 41.13N 0:58 390 41.00N 1:08 390 40.85N 1:13 390 40.76N 1:18 390 40.67N 1:23 390 40.57N 1:28 390 40.47N	90.11W -52022 91.04W -53027 91.96W -62034 92.90W -63035 94.21W -63027 95.51W -62038 96.79W -62046 98.14W -60053 98.84W -60053 99.54W -58052 100.23W -57033 100.91W -57053	3/27/77 0241A 1:45 391 40.101 3/27/77 0247 1:51 390 39.951 3/27/77 0257 2:01 390 39.551 3/27/77 0302 2:06 390 39.271 3/27/77 0312 2:16 390 38.691 3/27/77 0322 2:26 390 38.066 3/27/77 0327 2:31 390 37.731 3/27/77 0332 2:36 390 37.381 3/27/77 0337 2:41 390 37.021 3/27/77 0342 2:46 390 36.631 3/27/77 0349 2:53 390 36.101	N 101.88W -57039 N 103.32W -54038 N 104.16W -55057 N 105.63W -54088 N 106.37W -54102 N 107.89W -55120 N 109.43W -56074 N 110.20W -55056 N 110.95W -54090 N 111.71W -53067 N 113.56W -56083 N 115.68W -58069



UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .081 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 29
DATA SOURCE: GASP TAPE VL012, FÎLE 2

3/27/77 2041 0:10 328 35.03N 116.48W -50019 3/27/77 2051 0:20 370 35.69N 115.05W -57027 3/27/77 2101 0:30 370 36.23N 113.44W -57036 3/27/77 2111 0:40 370 36.75N 111.81W -57029 3/27/77 2110 0:45 370 37.01N 110.98W -57030 3/27/77 2110 0:45 370 37.01N 110.98W -57030 3/27/77 2121 0:50 37.03N 110.16W -57026 3/27/77 2121 0:50 37.03N 110.16W -57026 3/27/77 2121 0:50 37.03N 37.25N 110.16W -57026 3/27/77 2121 0:50 37.03N 37.49N 109.33W -58021 3/27/77 2131 1:00 370 37.72N 108.49W -57038 3/27/77 2152 1:21 370 38.58N 105.16W -56032 3/27/77 2201 1:30 370 38.58N 105.16W -56032 3/27/77 2211 1:40 370 39.35N 101.74W -54048 3/27/77 2211 1:40 370 39.35N 101.74W -54048 3/27/77 2212 1:50 370 39.53N 100.83W -54081 3/27/77 2226 1:55 370 39.71N 99.92W -54070 3/28/77 0016 3:45 384 41.43N 76.34W -60004 3/27/77 2226 1:55 370 39.88N 98.99W -53076	MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
	3/27/77 2051 3/27/77 2101 3/27/77 2111 3/27/77 2116 3/27/77 2126 3/27/77 2126 3/27/77 2131 3/27/77 2152 3/27/77 2201 3/27/77 2211 3/27/77 2216 3/27/77 2221	0:20 370 35.69N 0:30 370 36.23N 0:40 370 36.75N 0:45 370 37.01N 0:50 370 37.25N 0:55 370 37.49N 1:00 370 37.72N 1:21 370 38.58N 1:30 370 38.97N 1:40 370 39.35N 1:45 370 39.53N	115.05W -57027 113.44W -57036 111.81W -57029 110.98W -57030 110.16W -57026 109.33W -58021 108.49W -57038 105.16W -56032 103.48W -55051 101.74W -54048 100.83W -54081 99.92W -54070	3/27/77 2241 2:10 370 40.36N 3/27/77 2251 2:20 370 40.64N 3/27/77 2301 2:30 386 40.95N 3/27/77 2311 2:40 390 41.25N 3/27/77 2316 2:45 390 41.35N 3/27/77 2321 2:50 390 41.41N 3/27/77 2326 2:55 390 41.54N 3/27/77 2336 3:05 390 41.77N 3/27/77 2346 3:15 390 41.99N 3/28/77 0006 3:35 390 42.11N 3/28/77 0011 3:40 390 41.75N	96.11W -53045 94.12W -54035 92.11W -58068 90.02W -61035 88.95W -61022 87.88W -61026 86.83W -61024 84.72W -61024 82.62W -61023 80.48W -61024 78.35W -62000 77.32W -61000

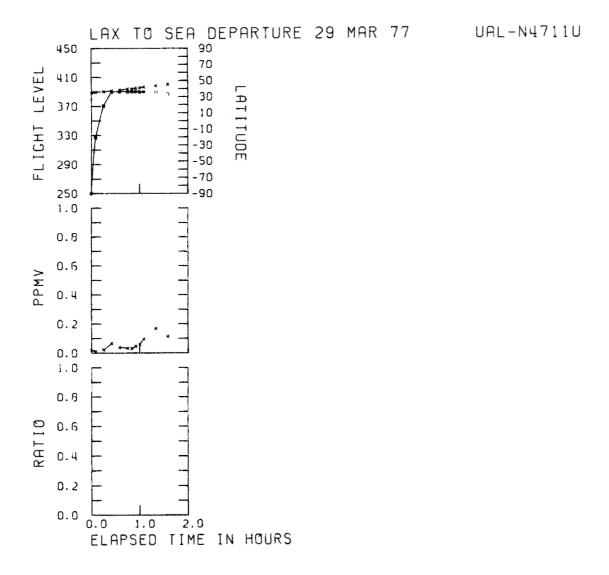


UAL-N4711U

JEK TO LAX (PAGE 1 OF 1) DEPARTURE: 28 MAR 77 AIRCRAFT: UAL-N4711U

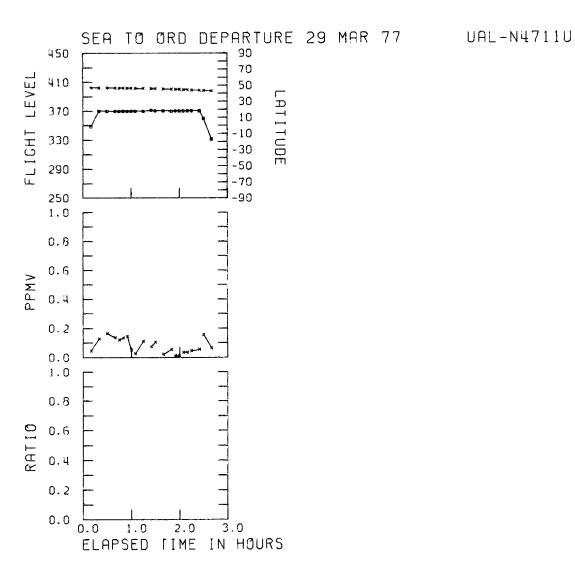
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .192 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 35 DATA SOURCE: GASP TAPE VL012, FILE 2

HR:MN (C) CABIN AMB.	HR:MN	(C) CABIN AMB.
3/28/77 1731 0:07 293 41.53N 75.10W -35024 3/28/77 1742 0:18 369 41.87N 76.78W -55063 3/28/77 1747 0:23 370 41.99N 77.53W -55045 3/28/77 1757 0:33 370 42.21N 79.06W -56038 3/28/77 1807 0:43 390 42.41N 80.56W -61028 3/28/77 1812 0:48 390 42.50N 81.32W -61018 3/28/77 1822 0:58 390 42.52N 82.88W -61019 3/28/77 1827 1:03 390 42.41N 83.68W -61039 3/28/77 1837 1:08 390 42.41N 84.47W -61029 3/28/77 1837 1:13 390 42.34N 85.28W -61029 3/28/77 1842 1:18 390 42.34N 85.28W -61029 3/28/77 1842 1:18 390 42.34N 85.28W -61029 3/28/77 1842 1:18 390 42.34N 85.28W -61028 3/28/77 1842 1:18 390 42.34N 85.28W -61028 3/28/77 1842 1:18 390 42.34N 85.28W -61021 3/28/77 1842 1:18 390 42.34N 85.28W -61021 3/28/77 1849 1:25 390 42.13N 87.36W -58027 3/28/77 1859 1:35 390 41.93N 89.11W -49055 3/28/77 1909 1:45 390 41.70N 90.84W -46107 3/28/77 216 3/28/77 1929 2:05 390 41.17N 94.25W -45115 3/28/77 215 3/28/77 1934 2:10 390 41.02N 95.08W -45160 3/28/77 226	2:20 390 40.72N 49 2:25 390 40.55N 56 2:32 390 40.32N 56 2:32 390 39.96N 2:52 390 39.61N 2:52 390 39.61N 3:13 391 38.83N 46 3:22 390 38.42N 51 3:27 391 38.21N 56 3:32 391 37.99N 66 3:42 390 37.53N 4:02 390 36.58N 4:17 390 35.88N 4:27 390 35.58N 4:27 390 35.58N 4:27 390 35.58N 4:27 390 35.58N	97.52W -45063 98.65W -49036 100.19W -47104 101.73W -46115 103.21W -49118 104.72W -47107 106.13W -48124 106.85W -42115 107.58W -42125 117.58W -42155 111.81W -43155 113.83W -46116 114.50W -47170



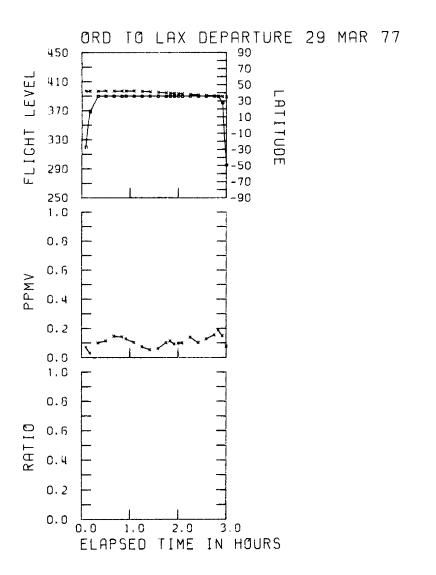
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .168 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 14 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MOZDAZYR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
3/29/77 0157		118.74w -28022		120.85W -46031
3/29/77 0204	-	118.95W -51010		121.09W -49048
3/29/77 0215	0:18 371 36.25N	119.34W -53022	3/29/77 0259 1:02 390 41.29N	121.21w -48061
3/29/77 0224	0:27 390 37.34N	119.75w -49066	3/29/77 0304 1:07 390 41.90N	121.31w -48095
3/29/77 0234	0:37 390 38.45N	120.18w -50038	3/29/77 0318 1:21 390 43.64N	121.60w -47168
3/29/77 0244	0:47 390 39.56N	120.63W -50033	3/29/77 0333 1:36 387 45.41N	122.22w +49114



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .164 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 22 DATA SOURCE: GASP TAPE VL012, FILE 2

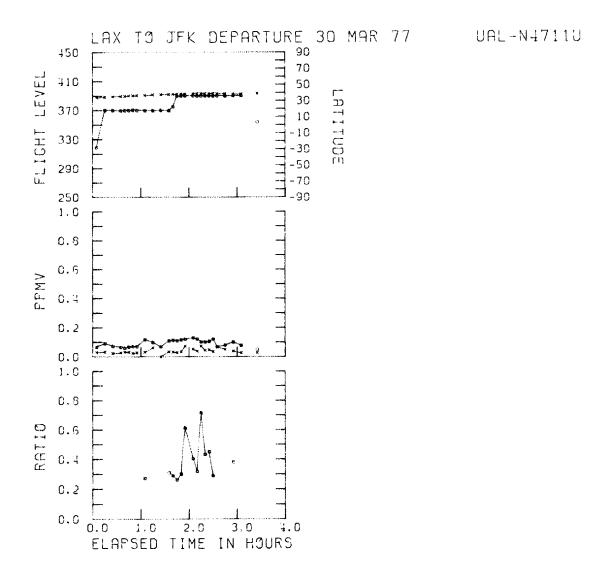
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) CABIN AMB.	RATIO
3/29/77	1635	0:10	348	47.26N	119.20W	-53•	.046	3/29/77	1756	1:31	371	45,91N	104.17w	-53.	.105	
3/29/17	1645	0:20	370	47.20N	117.25W	-51.	.128	3/29/77	1806	1:41	370	45.62N	102.43W	-53.	.022	
3/29/77	1655	0:30	370	47.10N	115.27W	-55.	.164	3/29/77	1816	1:51	370	45.30N	100.67W	-50.	• 054	
3/29/77	1705	0:40	370	46.97N	113.37W	-57.	.135	3/29/77	1821	1:56	370	45.12N	99.78W	-49.	.013	
3/29/77	1/10	0:45	370	46.90N	112.44W	-54.	.121	3/29/77	1826	2:01	370	44.94N	98.90W	-47.	.011	
3/29/17	1715	0:50	370	46.81N	111.49W	-55	.134	3/29/77	1831	2:06	370	44.74N	97.99W	-44.	•035	
3/29/17	1720	0:55	370	46.73N	110.58W	-56.	.146	3/29/77	1836	2:11	370	44.54N	97.07W	-44.	•035	
3/29/77	1725	1:00	370	46.63N	109.65W	-52.	.052	3/29/77	1843	2:18	371	44.23N	95.76W	-42.	.046	
3/29/77	1732	1:07	370	40.49N	108.37W	-55.	.026	3/29/77	1850	2:25	370	43.90N	94.43W	-39.	.054	
3/29/77	1742	1:17	370	46.26N	106.59W	-58	.111	3/29/77	1857	2:32	360	43.54N	93.09W	-41.	.156	
3/29/77	1750	1:25	371	46.06N	105.15w	-57.	.074	3/29/77	1907	2:42	331	43.01N	91.22W	-42.	-064	



UAL-N4711U

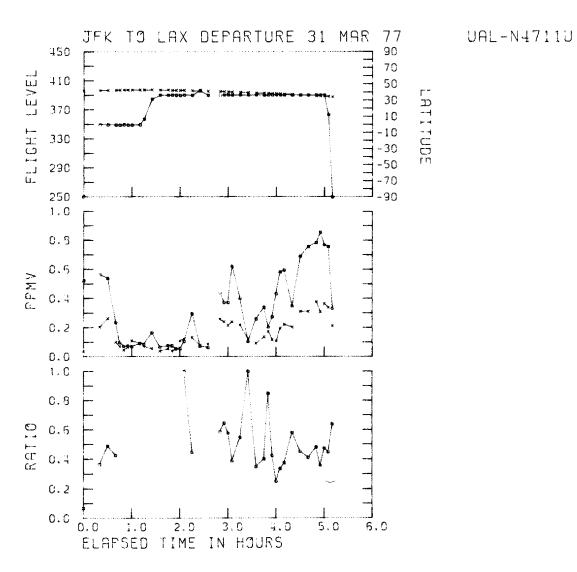
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .188 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 23 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (PPMV) RATIO CABIN AMB•	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(PPMV) RATIO CABIN AMB.
3/29/17	2239	0:07	320	42.18N	89.86W	-43.	.072	3/30/77	0021				106.29W		
3/29/77	2246	0:14	368	42.26N	90.91w	-45.	.031	3/30/77	0026	1:54	390	39.77N	107.02W	-44.	.114
3/29/77	2256	0:24	390	42.35N	92.48W	-45.	.101	3/30/77	0031	1:59	390	39.42N	107.75W	-45.	.093
3/29/77	2306	0:34	390	42.41N	94.09W	-43.	.114	3/30/77	0036	2:04	390	39.07N	108.48W	-44.	.099
3/29/77	2316	0:44	390	42.45N	95.77W	-40.	.147	3/30/77	0041	2:09	390	38.72N	109.18W	-44.	.100
3/29/77	2326	0:54	390	42.47N	97.48W	-40.	.143	3/30/77	0051	2:19	390	38.02N	110.55W	-47.	.140
3/29/77	2331	0:59	390	42.47N	98.35W	-40.	.129	3/30/77	0101	2:29	390	37.32N	111.92W	-46.	•103
3/29/77	2341	1:09	390	42.48N	100.12W	-42.	.104	3/30/77	0111	2:39	390	36.61N	113.25W	-45.	.129
3/29/77	2351	1:19	390	42.05N	101.75W	-42.	.075	3/30/77	0121	2:49	390	35.92N	114.52W	-46.	•156
3/30/77	0001	1:29	390	41.43N	103.28W	-43.	.054	3/30/77	0126	2:54	390	35.57N	115.13w	-47.	.188
3/30/77	0011	1:39	390	40.78N	104.79W	-43.	.064	3/30/77	0131	2:59	380	35.22N	115.73w	-50.	.149
								3/30/77	0136	3:04	<b>295</b>	34.88N	116.31W	-43.	.078



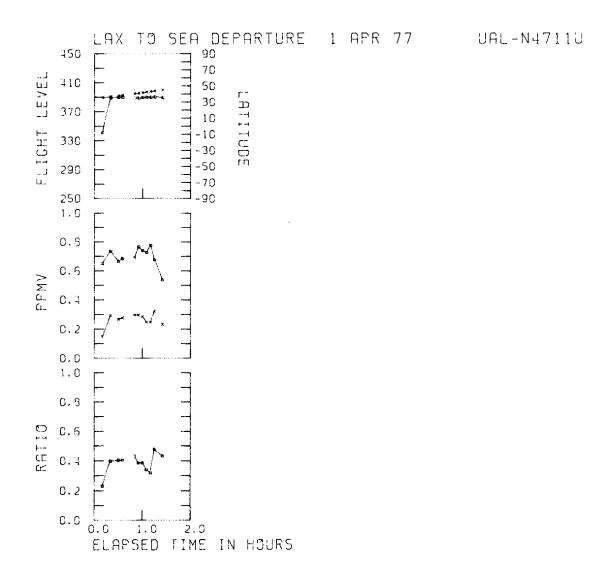
MAXIMUM VALUES: AMBIENT DZONE= .131 CABIN DZONE= .074 RATIO (LIMITED TO AMB. DZONE ABOVE 0.1)= .72 TOTAL OBS IN CABIN: 27 DATA SOURCE: GASP TAPE VL012, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM F HR:MN	FL	LAT	LONG		CABIN OZONE (	(PPMV)	RAT10	MONDANAH	GMT	HR:MN	FL	LAT	LONG		OZONE( CABIN		RATIO
3/30/77 2041 3/30/77 2051 3/30/77 2101 3/30/77 2116 3/30/77 2126 3/30/77 2126 3/30/77 2131 3/30/77 2141 3/30/77 2151	0:15 3 0:25 3 0:35 3 0:40 3 0:45 3 0:50 3 0:55 3	70 3 70 3 70 3 70 3 70 3 70 3 70 3	34.64N 35.16N 35.65N 35.89N 36.13N 36.34N 36.55N	115.70W 113.91W 112.07W 110.19W 109.24W 108.27W 107.34W 106.40W 104.49W 102.52W	-54. -53. -53. -52. -53. -54. -54.		.091 .073 .066 .060 .068 .072	•27	3/30/77 3/30/77 3/30/77 3/30/77 3/30/77 3/30/77 3/30/77 3/30/77	2226 2231 2241 2246 2251A 2300A 2305A 2310A	1:50 5:55 5:00 2:10 2:12 2:24 2:34 2:34	390 390 390 390 390 390 390	38.28N 38.41N 38.52N 38.52N 38.82N 38.82N 38.82N 38.80N 38.75N 38.75N	96.37W 95.33W 94.30W 92.22W 91.11W 90.02W 88.11W 87.08W 86.04W 85.05W	-49. -49. -51. -50. -49. -50. -49.	.029 .035 .074 .053 .039 .074 .044 .047	•111 •117 •121 •131 •122 •103 •101 •121 •070	.30 .61 .40 .32 .72 .43
3/30/77 2201 3/30/77 2211 3/30/77 2216	1:25 3' 1:35 3'	70 3 70 3	37.68N 38.00N	100.52W 98.47W 97.42W	-53. -50.	.000	•070 •110	· -	3/30/77 3/30/77 3/30/77 3/31/77	2324 2334 2345	2:48 2:58 3:09	390 390 390	38.41N 38.29N 38.14N 39.01N	83.28W 81.26W 79.23W 75.31W	-53. -52. -58.	.050 .038 .026	.080 .100 .079	



MAXIMUM VALUES: AMBIENT OZONE= .854 CABIN OZONE= .377 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.18 TOTAL OBS IN CABIN: 41 DATA SOURCE: GASP TAPE VL012, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

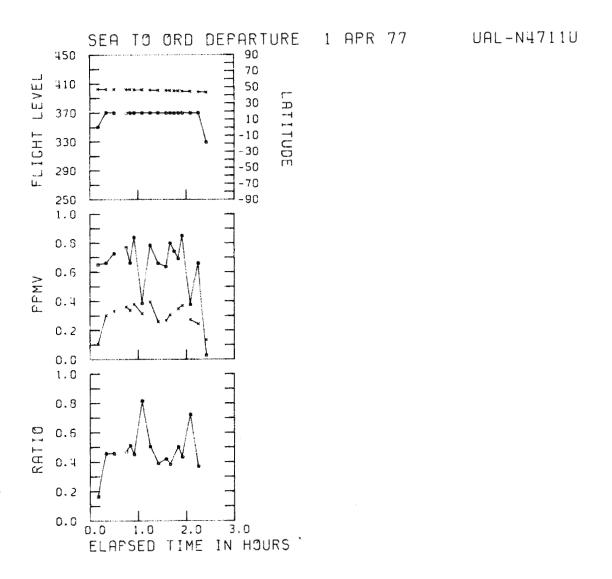
MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TE		DZONE (PPMV)	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE( CABIN		RATIO
3/31/77 1736 3/31/77 1756 3/31/77 1806 3/31/77 1816 3/31/77 1821 3/31/77 1821 3/31/77 1831 3/31/77 1836 3/31/77 1851 3/31/77 1951 3/31/77 1921 3/31/77 1921 3/31/77 1926 3/31/77 1931 3/31/77 1931 3/31/77 1931 3/31/77 1941 3/31/77 1941 3/31/77 1941 3/31/77 1952 3/31/77 2012	0:00 226 0:20 349 0:30 349 0:40 349 0:50 350 0:55 349 1:00 349 1:10 350 1:15 357 1:25 384 1:35 390 1:50 390 2:00 390 2:16 390 2:16 390 2:36 390	41.99N 42.17N 42.32N 42.39N 42.44N 42.50N 42.50N 42.66N 42.66N 42.72N 42.62N 42.62N 42.62N 42.62N 42.62N 42.62N 42.65N 42.65N 42.65N 42.65N 42.65N 42.65N	74.19W -2 77.05W -4 78.58W -4 80.07W -4 80.83W -4 81.56W -5 82.30W -5 83.04W -5 84.52W -5 85.24W -5 86.76W -5 90.47W -5 91.18W -5 91.90W -5 94.14W -5 94.14W -5 94.55W -5	5. 11. 66. 66. 99. 80. 00. 23. 99. 11. 22. 11. 88.	.035 .522 .205 .562 .262 .538 .100 .235 .070 .097 .046 .074 .110 .069 .093 .091 .073 .085 .055 .164 .039 .068 .054 .076 .039 .075 .056 .054	• 36 • 49 • 43	3/31/77 2 3/31/77 2	2032 2037 2042 2052 2112 2112 2112 21137 2147 2147 22147 22217 22217 22237	2:01 0:00 0:10 0:12 0:14 0:14 0:10 0:10 0:10 0:10 0:10 0:10	391 390 391 391 391 391 391 391 391 391 391	40.61N 40.45N 40.28N 40.11N 39.76N 39.39N 39.00N 38.59N 38.38N 38.17N 37.95N 37.74N 37.95N 37.51N 37.03N 36.53N 36.53N 36.53N 36.52N 35.22N 35.22N 34.60N	99.02W 99.71W 100.39W 101.057W 103.69W 105.01W 106.35W 107.00W 107.66W 108.30W 108.90W 110.90W 112.23W 113.53W 114.82W 115.46W 116.16W	-52. -52. -52. -55. -51. -49. -50. -51. -50. -51. -487. -46.	.240 .216 .240 .219 .123 .091 .136 .174 .116 .195	.441 .373 .373 .619 .401 .260 .339 .205 .274 .433 .581 .595 .350 .688 .755 .785 .854	.64 .59 .55 1.18 .39 .40 .842 .347 .55 .41 .48 .47
3,31,11 2012	2.30 370	TARVON	70#70# -5	•	1000 1002		3/31/77 2				34.04N	11/.01W		.212	•333	-



LAX TO SEA (PAGE 1 OF 1) DEPARTURE: 1 APR 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE= .776 CABIN OZONE= .323 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .48 TOTAL OBS IN CABIN: 11 DATA SOURCE: GASP TAPE VL012, FILE 2

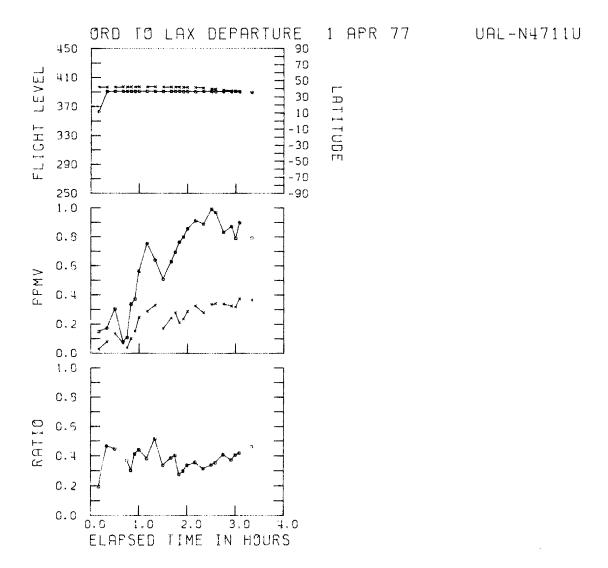
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG TE		OZONE (P			MO/DA/YR	GMT	ETIM FL HR:MN	LAT			OZONE (F CABIN		RATIO
4/ 1/77 4/ 1/77 4/ 1/77 4/ 1/77 4/ 1/77	0216 0226 0231	0:20 0:30 0:35	389 390 390	36.86N 38.12N 38.75N	119.13W -4 119.53W -4 119.91W -5 120.11W -5 120.70W -5	9. 51.	.293 .269 .277	•736 •667 •685	• 40 • 40 • 40	4/ 1/77 4/ 1/77 4/ 1/77 4/ 1/77 4/ 1/77 4/ 1/77	0256 0301 0308 0314	1:00 390 1:05 390 1:12 390 1:18 390	41.78N 42.37N 43.24N 43.87N	120.90W -5 121.11W -5 121.32W -5 121.64W -5 121.87W -5 122.03W -6	5. 7.	.286 .248 .248 .323	•740 •728 •776 •678	.39 .34 .32 .48



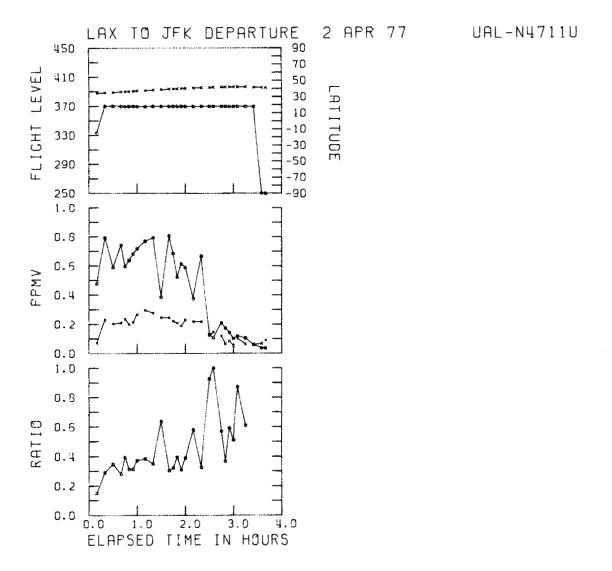
SEA TO ORD (PAGE 1 OF 1) DEPARTURE: 1 APR 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE= .851 CABIN OZONE= .395 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .82 TOTAL OBS IN CABIN: 16 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE (PPMV) CABIN AMB.		MO/DA/YR GMT	T ETIM FL LAT HRÌMN		OZONE (PPMV) RATIO CABIN AMB.
4/ 1/77 1636 4/ 1/77 1646 4/ 1/77 1656 4/ 1/77 1711 4/ 1/77 1716 4/ 1/77 1721 4/ 1/77 1731 4/ 1/77 1741	0:10 351 47.38N 0:20 370 47.32N 0:30 370 47.22N 0:45 370 47.00N 0:50 370 46.91N 0:55 370 46.81N 1:05 370 46.58N 1:15 370 46.31N	117.04W -48. 114.97W -48. 111.90W -47. 110.88W -47. 109.86W -46. 107.82W -48.	.302 .661 .333 .727 .361 .766 .339 .663 .379 .838 .315 .386	.46 .46 .47 .51 .45	4/ 1/77 1752 4/ 1/77 1806 4/ 1/77 1816 4/ 1/77 1816 4/ 1/77 1816 4/ 1/77 1821 4/ 1/77 1831 4/ 1/77 1841 4/ 1/77 1851	1:35 370 45.67N 1:40 370 45.48N 1:45 370 45.28N 1:50 370 45.07N 1:55 370 44.85N 2:05 370 44.38N 2:15 370 43.86N	101.73W -49. 100.71W -47. 99.69W -49. 98.68W -48. 97.68W -49. 95.64W -50. 93.58W -49.	.348 .693 .50 .370 .851 .43

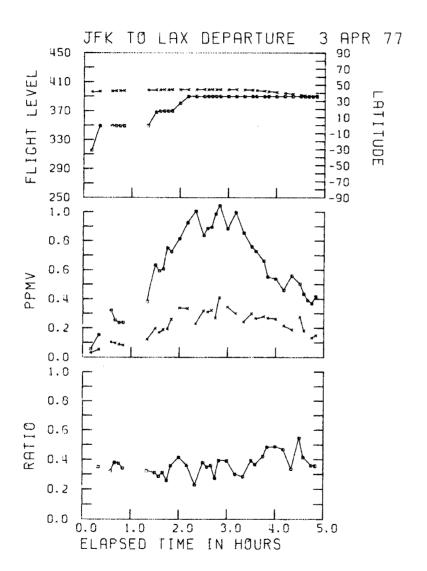


MAXIMUM VALUES: AMBIENT OZONE= .991 CABIN OZONE= .375 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .51 TOTAL OBS IN CABIN: 25 DATA SOURCE: GASP TAPE VL012, FILE 2



MAXIMUM VALUES: AMBIENT OZONE= .807 CABIN OZONE= .296 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.38 TOTAL OBS IN CABIN: 29 DATA SOURCE: GASP TAPE VL012, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN UNE OBSERVATION WAS AVERAGED

MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE (PPMV) CABIN AMB.	RATIO	MO/ha/YR GMT	ETIM FL LAT HR:MN	LONG TEMP (C)	OZONE(PPMV) RATIO CABIN AMB.
4/ 2/77 2040 4/ 2/77 2050 4/ 2/77 2100 4/ 2/77 2110 4/ 2/77 2115 4/ 2/77 2125 4/ 2/77 2130 4/ 2/77 2140 4/ 2/77 2150 4/ 2/77 2200 4/ 2/77 2210 4/ 2/77 2215 4/ 2/77 2220	0:10 333 33.84N 0:20 370 34.31N 0:30 370 34.97N 0:40 370 35.61N 0:45 370 35.93N 0:50 370 36.25N 0:55 370 36.56N 1:00 370 36.87N 1:10 370 37.48N 1:20 370 38.05N 1:30 370 38.61N 1:40 370 39.14N 1:45 370 39.39N 1:50 370 39.63N	115.82W -45. 114.19W -46. 112.57W -46. 110.90W -47. 110.03W -46. 109.16W -48. 108.27W -47. 107.37W -46. 105.50W -46. 103.60W -43. 101.63W -47. 99.62W -44. 98.60W -46. 97.56W -45.	.230 .791 .204 .589 .209 .743 .235 .596 .200 .638 .213 .680 .267 .717 .296 .769 .278 .793 .245 .385	.29 .35 .28 .39 .31 .37 .38 .35 .64	4/ 2/77 2225 4/ 2/77 2230 4/ 2/77 2250 4/ 2/77 2350 4/ 2/77 2305 4/ 2/77 2315 4/ 2/77 2325 4/ 2/77 2325 4/ 2/77 2336 4/ 2/77 2335 4/ 2/77 2345 4/ 2/77 2355 4/ 2/77 2355 4/ 2/77 2355 4/ 2/77 2355 4/ 3/77 0005A	1:55 370 39.87N 2:00 370 40.10N 2:10 370 40.53N 2:20 370 40.92N 2:30 370 41.25N 2:35 370 41.40N 2:45 370 41.80N 2:55 370 41.80N 2:55 370 41.80N 3:50 370 42.00N 3:05 370 42.00N 3:15 370 42.00N 3:15 370 42.00N 3:25 370 41.55N 3:35 250 40.94N 3:41 210 40.99N	96.50W -43. 95.45W -43. 93.28W -43. 91.10W -46. 88.86W -45. 87.74W -47. 85.46W -47. 84.31W -49. 83.15W -53. 81.99W -55. 80.83W -56. 78.50W -56. 76.39W -58. 74.49W -27. 74.35W -17.	229

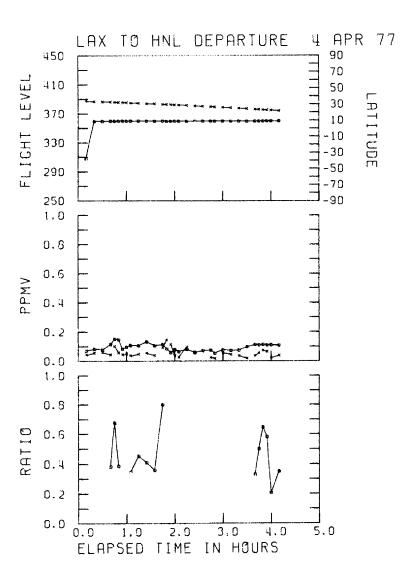


UAL-N4711U

JFK TO LAX (PAGE 1 OF 1) DEPARTURE: 3 APR 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE=1.044 CABIN OZONE= .411 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .55 TOTAL OBS IN CABIN: 34 DATA SOURCE: GASP TAPE VL012, FILE 2

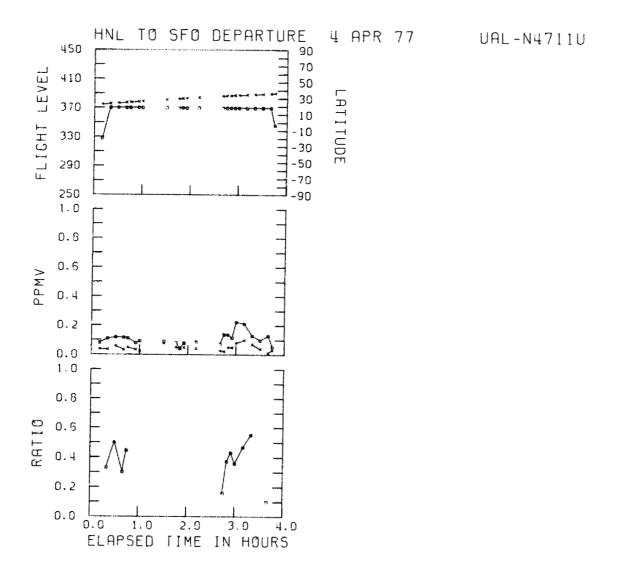
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZONE (PPMV) RATIO	) MO/DA/YR GM	T ETIM FL LAT HR:MN	LONG TEMP (C)	OZONE(PPMV) RATIO CABIN AMB.
4/ 3/77 1745	0:10 315 41.66N	75.26W -43.		4/ 3/77 201 4/ 3/77 202	-	96.42W -50. 97.26W -49.	
4/ 3/77 1755 4/ 3/77 1810	0:20 349 42.13N 0:35 349 42.69N	76.49W -46. 78.30W -48.	.104 .322 .32	4/ 3/77 202	6 2:51 390 44.49N	98.12W -49.	.411 1.044 .39
4/ 3/77 1815 4/ 3/77 1820	0:40 349 42.80N 0:45 349 42.91N	78.93W -49. 79.56W -50.		4/ 3/77 203 4/ 3/77 204	6 3:11 390 44.35N	99.88W -51. 101.67W -48.	.299 .996 .30
4/ 3/77 1825 4/ 3/77 1855	0:50 349 43.03N 1:20 349 43.84N	80.18W -49. 84.02W -51.		4/ 3/77 205 4/ 3/77 210		103.50w -51. 105.27w -52.	
4/ 3/77 1905 4/ 3/77 1910	1:30 368 44.07N 1:35 370 44.13N	85.34w -51. 86.07w -52.		4/ 3/77 211 4/ 3/77 212	T	106.05W -53. 107.58W -55.	
4/ 3/77 1915 4/ 3/77 1920	1:40 370 44.19N 1:45 370 44.25N	86.80W -50. 87.56W -50.		4/ 3/77 212 4/ 3/77 213	6 3:51 390 42.05N	108.35W -57. 109.84W -57.	.268 .553 .48
4/ 3/77 1925 4/ 3/77 1935	1:50 370 44.30N 2:00 381 44.38N	88.33W -51. 89.88W -50.	.260 .726 .36	4/ 3/77 214 4/ 3/77 215	6 4:11 390 39.86N	111.18W -59. 112.48W -56.	.215 .460 .47
4/ 3/77 1945	2:10 390 44.45N	91.46W -49.	.334 .926 .36	4/ 3/77 220	6 4:31 390 37.50N	113.73W -56.	.275 .504 .55
4/ 3/77 1956 4/ 3/77 2006	2:21 390 44.50N 2:31 390 44.52N	93.13W -49. 94.75W -49.	.318 .838 .38	4/ 3/77 221 4/ 3/77 221	6 4:41 390 36.29N	114.35W -58. 114.95W -60.	•391
4/ 3/77 2011	2:36 390 44.52N	95.58W -50.	.310 .887 .35	4/ 3/77 222 4/ 3/77 222		115.54W -60. 116.10W -58.	



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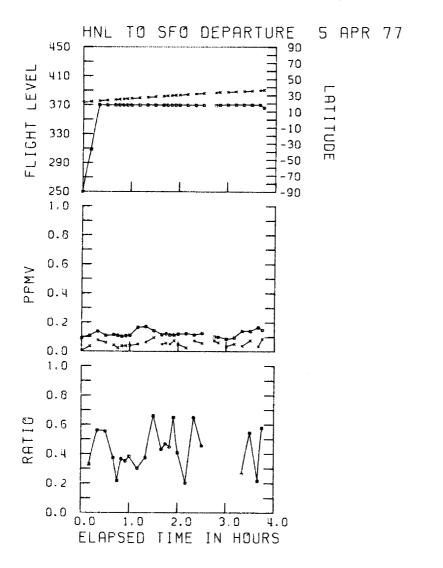
MAXIMUM VALUES: AMBIENT OZONE= .151 CABIN OZONE= .145 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .40 TOTAL OBS IN CABIN: 31 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	<del>-</del> -	ONE(PPMV) RATIO BIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
4/ 4/77 0057 4/ 4/77 0107 4/ 4/77 0117 4/ 4/77 0127 4/ 4/77 0132 4/ 4/77 0142 4/ 4/77 0147 4/ 4/77 0155 4/ 4/77 0204 4/ 4/77 0214 4/ 4/77 0224 4/ 4/77 0234 4/ 4/77 0234 4/ 4/77 0244 4/ 4/77 0244 4/ 4/77 0244 4/ 4/77 0244	0:10 308 33.54N 0:20 359 33.23N 0:30 360 32.88N 0:40 360 32.51N 0:45 360 32.33N 0:50 360 32.13N 0:55 360 31.94N 1:00 360 31.74N 1:08 360 31.43N 1:17 360 31.02N 1:27 360 30.59N 1:37 360 30.16N 1:47 360 29.70N 1:52 360 29.47N 1:52 360 29.23N 2:02 360 28.99N	123.77W ~58	044 .070 056 .082 059 .076 044 .115 .38 102 .151 .68 057 .147 .39 045 .083 050 .097 038 .109 .35 048 .106 .45 054 .132 .41 038 .106 .36 092 .115 .80 145 .084 115 .084 115 .085 037 .078	4/ 4/77 0314 2:27 360 27.73N 4/ 4/77 0324 2:37 360 27.21N 4/ 4/77 0334 2:4/ 360 26.69N 4/ 4/77 0339 2:52 360 26.42N 4/ 4/77 0349 3:02 360 25.87N 4/ 4/77 0349 3:12 360 25.32N 4/ 4/77 0419 3:22 360 24.75N 4/ 4/77 0419 3:32 360 24.16N 4/ 4/77 0434 3:4/ 360 23.28N 4/ 4/77 0434 3:4/ 360 23.28N 4/ 4/77 0434 3:5/ 360 22.98N 4/ 4/77 0444 3:5/ 360 22.67N 4/ 4/77 0449 4:02 360 22.36N	140.64W -57096 .079



MAXIMUM VALUES: AMBIENT OZONE= .223 CABIN OZONE= .099 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .55 TOTAL OBS IN CABIN: 22 DATA SOURCE: GASP TAPE VL012, FILE 2

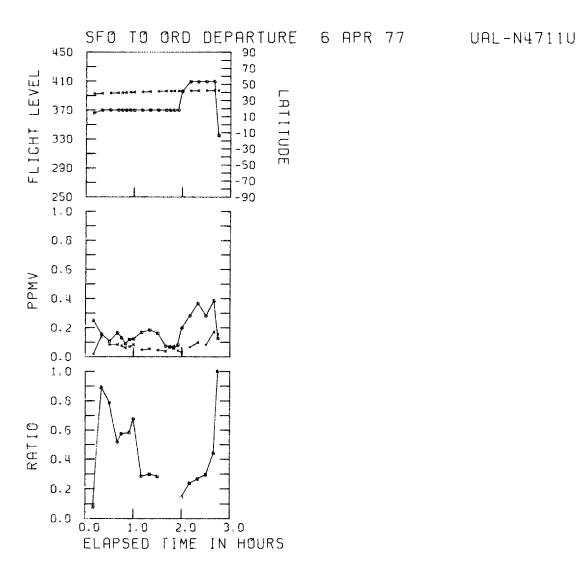
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP 0200	E(PPMV) RATIO N AMB.	MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE (PPMV) RATIO CABIN AMB.
4/ 4/77 2007 4/ 4/77 2017 4/ 4/77 2027 4/ 4/77 2037 4/ 4/77 2042	0:20 370 23.10N 0:30 370 23.89N 0:40 370 24.65N	155.72W -4703 154.46W -5703 153.16W -5703 151.86W -5703 151.19W -5803	36 •109 •33 9 •118 •50 85 •116 •30	4/ 4/11 2207 4/ 4/17 2237 4/ 4/17 2242 4/ 4/17 2247 4/ 4/17 2252	2:10 370 31.12N 2:40 370 32.94N 2:45 370 33.23N 2:50 370 33.51N 2:55 370 33.79N	134.50W -59. 133.74W -59. 132.97W -58.	.028 .073 .022 .13H .16 .051 .137 .37
4/ 4/77 2052 4/ 4/77 2057 4/ 4/77 2127 4/ 4/77 2142 4/ 4/77 2147 4/ 4/77 2152		149.85W ~58. 03 149.16W ~58. 04 144.90W ~58. 05 142.71W ~59. 05 141.97W ~59. 04	95 •079 95 •093 9 •090	4/ 4/17 2257 4/ 4/17 2307 4/ 4/17 2317 4/ 4/17 2327 4/ 4/17 2337 4/ 4/17 2342	3:00 370 34.05N 3:10 370 34.58N 3:20 370 35.07N 3:30 370 35.55N 3:40 370 36.14N 3:45 346 36.48N	131.43w -57. 129.86w -58. 128.30w -59. 126.71w -61. 125.17w -61.	.080 .223 .36 .099 .212 .47 .071 .124 .55 .040 .098 .013 .128 .10



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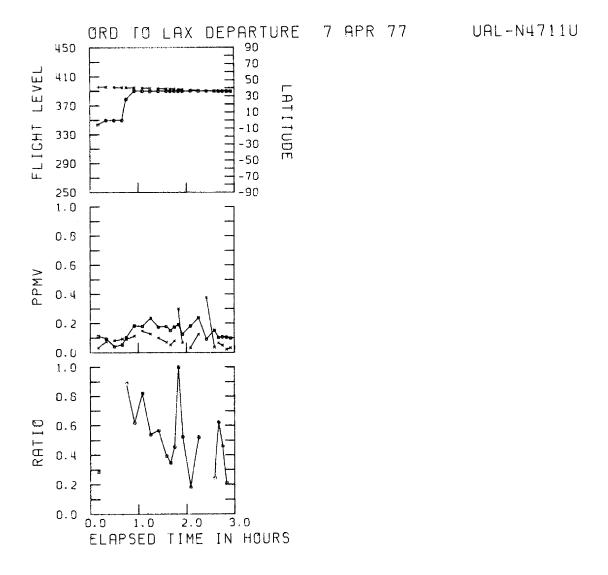
MAXIMUM VALUES: AMBIENT OZONE= .171 CABIN OZONE= .095 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .72 TOTAL OBS IN CABIN: 28 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZUNE (PPMV) CABIN AMB.	RATIO	MOZOAZYR GMT	ETIM FL LAT HR:MN		OZUNE (PPMV) RATIO CABIN AMB.
4/ 5/77 2005 4/ 5/77 2015 4/ 5/77 2025 4/ 5/77 2035 4/ 5/77 2046 4/ 5/77 2050 4/ 5/77 2100 4/ 5/77 2105 4/ 5/77 2115 4/ 5/77 2125	0:00 207 21.54N 0:10 309 22.23N 0:20 370 23.07N 0:30 370 23.84N 0:40 370 24.61N 0:45 370 24.99N 0:50 370 25.38N 0:55 370 25.76N 1:00 370 26.14N 1:10 370 26.89N 1:20 370 27.65N	156.83W -15. 155.73W -41. 154.57W -56. 153.29W -57. 152.00W -58. 151.34W -58. 150.67W -58. 150.00W -58. 149.32W -58. 147.95W -58. 146.54W -58.	.036 .109 .078 .139 .061 .110 .043 .115 .024 .110 .038 .104 .038 .108 .042 .110	.33 .56 .55 .37 .22 .37 .35 .38	4/ 5/77 2155 4/ 5/77 2200 4/ 5/77 2205 4/ 5/77 2215 4/ 5/77 2225 4/ 5/77 2235 4/ 5/77 2250 4/ 5/77 2305 4/ 5/77 2315 4/ 5/77 2325	2:45 370 33.45N 2:50 370 33.73N 3:00 370 34.24N	142.03w -59. 141.33w -59. 140.49w -59. 138.97w -59. 137.44w -59. 135.90W -59. 133.55w -59. 132.78w -59. 131.17w -59. 129.57w -60.	.051 .114 .45 .074 .114 .65 .049 .120 .41 .025 .123 .20 .074 .114 .65 .057 .125 .46 .074 .103 .72 .061 .099 .033 .086 .051 .095
4/ 5/77 2135 4/ 5/77 2145 4/ 5/77 2150	1:30 370 28.40N 1:40 370 29.15N 1:45 370 29.52N	145.08W -58. 143.58W -59. 142.82W -59.	.050 .116		4/ 5/77 2335 4/ 5/77 2345 4/ 5/77 2350		125.00W -58.	.036 .166 .22



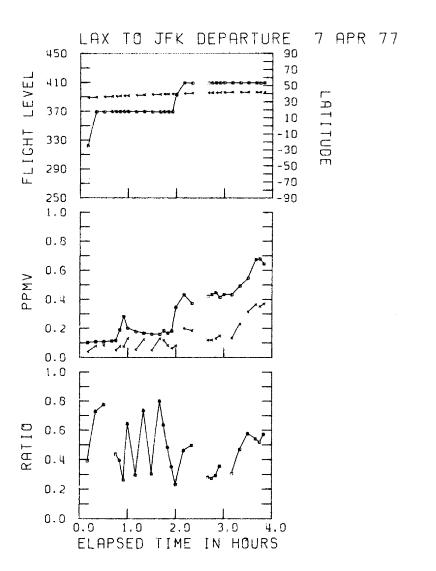
MAXIMUM VALUES: AMBIENT OZONE= .386 CABIN OZONE= .171 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.22 TOTAL OBS IN CABIN: 21 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE (PPMV) CABIN AMB.		MOZDAZYR GMT	ETIM FL HR:MN	LAT	LONG TEMP (C)	OZONE(PPMV) CABIN AMB.	
4/ 6/77 1853 4/ 6/77 1903 4/ 6/77 1913 4/ 6/77 1923 4/ 6/77 1928 4/ 6/77 1933 4/ 6/77 1938 4/ 6/77 1943 4/ 6/77 1953 4/ 6/77 2003	0:22 370 38.70 0:32 370 39.13 0:42 370 39.54 0:47 370 39.97 0:52 370 39.93 0:57 370 40.13 1:02 370 40.65	N 119.18W -57. N 117.51W -55. N 115.84W -55. N 114.14W -57. N 113.27W -54. N 112.40W -56. N 110.60W -55. N 108.86W -59. N 107.10W -60.	.140 .157 .085 .108 .085 .164 .076 .132 .062 .091 .070 .120 .084 .124	.89 .79 .52 .58 .58 .68 .29	4/ 6/77 2013 4/ 6/77 2023 4/ 6/77 2028 4/ 6/77 2033 4/ 6/77 2038 4/ 6/77 2043 4/ 6/77 2054 4/ 6/77 2114 4/ 6/77 2124 4/ 6/77 2129	1:32 370 1:42 370 1:47 370 1:52 370 1:57 370 2:02 396 2:13 409 2:23 409 2:23 410 2:43 410	41.49N 41.60N 41.71N 41.82N 41.91N 42.09N 42.22N 42.34N 42.42N	105.34W -61. 103.55W -63. 102.64W -03. 101.72W -63. 100.80W -02. 99.89W -64. 97.95W -61. 96.10W -59. 94.15W -54. 92.17W -53. 91.14W -56.	.037 .073 .071 .068 .072 .060 .042 .080 .029 .198 .067 .282 .098 .368 .083 .281 .171 .386	•15



MAXIMUM VALUES: AMBIENT OZONE= .238 CABIN OZONE= .377 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.57 TOTAL OBS IN CABIN: 22 DATA SOURCE: GASP TAPE VL012, FILE 2

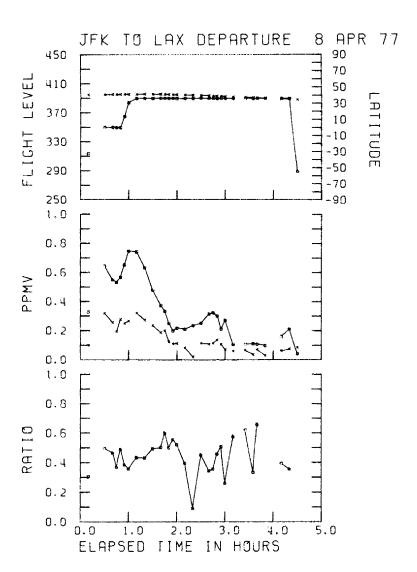
MO/DA/YR GMT	ETIM HR:MN	FL	LAT	LONG			(PPMV) • BMA	RATIO	MO/DA/YR	GMT	ETIM FL HR:MN	LAT	LONG		OZONE (F CABIN		RATIO
4/ 7/77 0114 4/ 7/77 0124 4/ 7/77 0134 4/ 7/77 0149 4/ 7/77 0159 4/ 7/77 0209 4/ 7/77 0219 4/ 7/77 0229	0:20 0:30 0:40 0:45 0:55 1:05 1:15	350 350 350 379 390 390 390	41.22N 41.01N 40.78N 40.53N 40.45N 40.17N 39.86N 39.51N 39.14N	90.41W 91.93W 93.46W 94.99W 95.76W 97.30W 98.85W 100.41W 101.99W	-59. -58. -58. -63. -64. -64.	.075 .082 .093 .091 .113 .147 .126	.053 .102 .183 .179 .234	•89 •62 •82 •54	4/ 7/77 4/ 7/77 4/ 7/77 4/ 7/77 4/ 7/77 4/ 7/77 4/ 7/77 4/ 7/77	0254 0259 0309 0319 0329 0339 0344 0349	1:45 390 1:50 390 1:55 390 2:05 390 2:15 390 2:25 390 2:35 390 2:40 390 2:44 390	38.12N 37.89N 37.43N 36.96N 36.46N 36.01N 35.79N 35.55N	105.88W 106.68W 108.19W 109.70W 111.19W 112.68W 113.42W 114.17W	-55. -54. -55. -55. -56. +55.	.299 .065 .033 .124 .377 .037 .064	•191 •124 •181 •238 •091 •151 •103 •106	1.57 .52 .18 .52 .25 .62 .40
4/ 7/77 0239 4/ 7/77 0244				103.55W 104.32W			•178 •150		4/ 7/77 4/ 7/77		2:50 390 2:55 390				.022 .032	•104 •098	• < 1



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MAXIMUM VALUES: AMBIENT OZONE= .678 CABIN OZONE= .369 RATIO (LIMITER TO AMB. OZONE ABOVE 0.1)= .80 TOTAL OBS IN CABIN: 27 DATA SOURCE: GASP TAPE VLOI2, FILE 2

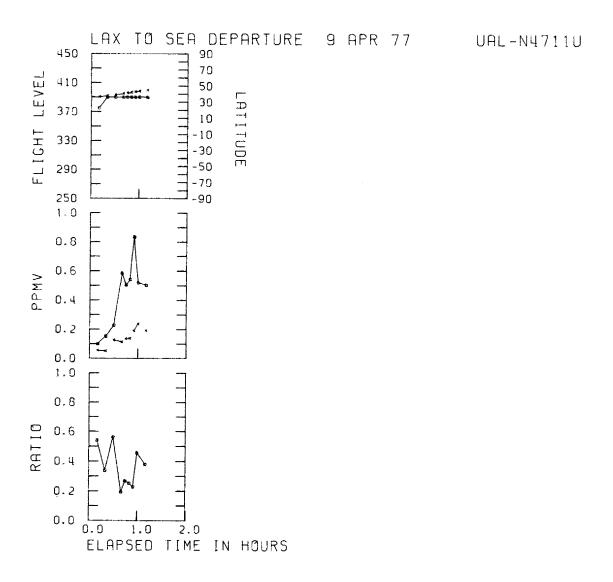
4/ 7/77 2048 0:10 322 35.03N 116.37W -47040 .102 .39	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(		RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(		RATIO
4/ 8/77 0028 3:50 409 41.68N 76.78W -47369 .645 .57	4/ 7/77 2 4/ 7/77 2	2058 2108 2118 2123 2128 2133 2138 2148 2158 2208 2218 2223	0:20 0:30 0:40 0:45 0:50 0:55 1:00 1:10 1:30 1:40 1:45	369 370 370 370 370 370 369 370 369 369 370	35.60N 36.17N 36.68N 36.92N 37.17N 37.41N 37.64N 38.10N 38.54N 38.54N 38.94N 39.27N 39.41N	114.77w 113.13w 111.54w 110.76w 109.96w 109.13w 108.30w 106.62w 104.91w 103.19w 101.42w 100.53w	-58. -57. -58. -58. +56. -57. -56. -55. -57. -57.	.078 .083 .051 .075 .074 .130 .053 .123 .049 .128	•107 •107 •113 •117 •189 •282 •202 •179 •167 •161 •160 •184	.73 .78 .44 .40 .26 .64 .30 .74 .30 .80	4/ 7/77 4/ 8/77 4/ 8/77	2238 2248 2258 2318 2323 2328 2333 2338 2348 2358 0008 0018	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	393 409 409 409 409 409 409 409 409 409 409	39.88N 40.20N 40.50N 41.03N 41.15N 41.27N 41.40N 41.52N 41.52N 41.92N 41.96N 41.80N 41.77N	97.85w 96.11w 94.32w 90.62w 89.67w 88.71w 87.75w 86.82w 84.88w 82.88w 80.86w 78.82w 77.79w	-60. -61. -59. -58. -57. -52. -52. -49. -44. -46. -47.	.080 .200 .185 .119 .131 .148 .133 .231 .315 .365 .352	.346 .433 .373 .424 .435 .447 .416 .435 .4493 .546 .674	23 46 50 28 27 29 36 31 45 54



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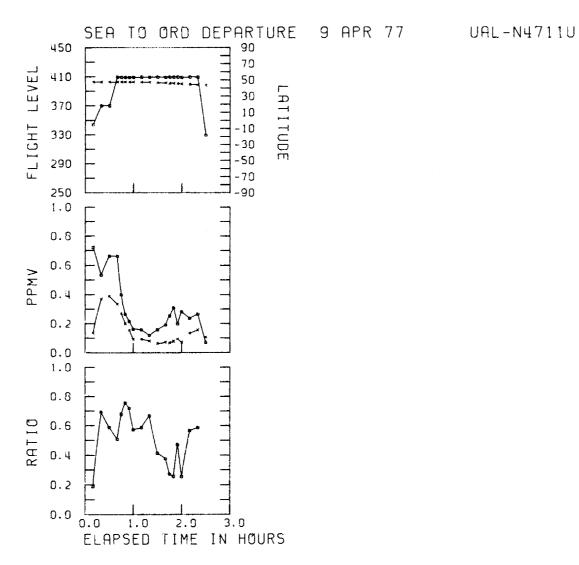
MAXIMUM VALUES: AMBIENT OZONE= .746 CABIN OZONE≈ .322 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .66 TOTAL OBS IN CABIN: 31 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(	(PPMV) RATIO AMB•	MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZONE (PPMV) RATIO CABIN AMB.
4/ 8/77 1732 4/ 8/77 1752 4/ 8/77 1802 4/ 8/77 1807 4/ 8/77 1812 4/ 8/77 1817 4/ 8/77 1832 4/ 8/77 1842 4/ 8/77 1852 4/ 8/77 1852 4/ 8/77 1902 4/ 8/77 1912 4/ 8/77 1917 4/ 8/77 1912	0:10 314 40.38N 0:30 350 40.70N 0:40 350 40.83N 0:45 350 40.89N 0:50 350 40.95N 0:55 365 40.99N 1:00 384 41.04N 1:10 390 41.10N 1:20 390 41.14N 1:30 390 41.16N 1:40 390 41.09N 1:45 390 40.97N 1:50 390 40.86N 1:55 390 40.74N 2:00 390 40.62N	76.03W -47100 79.09W -47319 80.68W -47256 81.47W -48196 82.27W -48277 83.07W -48251 83.87W -49266 85.49W -51322 87.15W -55273 88.81W -57236 90.47W -59187 91.32W -61200 92.12W -62125 92.94W -63111 93.78W -63113	.550 .47 .532 .37 .566 .49 .652 .38 .746 .36 .741 .43 .633 .43 .479 .49 .373 .50 .334 .60 .250 .50	4/ 8/77 1932 4/ 8/77 1942 4/ 8/77 1952 4/ 8/77 2002 4/ 8/77 2007 4/ 8/77 2017 4/ 8/77 2017 4/ 8/77 2032 4/ 8/77 2032 4/ 8/77 2057 4/ 8/77 2102 4/ 8/77 2132 4/ 8/77 2152 4/ 8/77 2152	2:10 390 40.34N 2:20 390 40.03N 2:30 390 39.69N 2:40 390 39.34N 2:40 390 39.14N 2:50 390 38.95N 2:55 390 38.75N 3:00 390 38.55N 3:10 390 38.14N 3:25 390 37.51N 3:35 390 37.07N 3:40 390 36.84N 3:50 390 36.38N 4:10 390 35.57N 4:20 390 35.57N 4:20 390 34.59N	95.44W -64. 97.14W -64. 98.88W -62. 100.51W -59. 101.34W -59. 102.17W -59. 103.75W -59. 105.30W -61. 107.53W -62. 108.98W -62. 109.70W -63. 113.94W -63. 115.34W -63. 115.34W -63.	.021 .235 .09 .114 .253 .45 .108 .315 .34 .115 .324 .35 .138 .302 .46 .107 .211 .51 .070 .271 .26 .061 .106 .58 .067 .108 .62 .037 .111 .35 .071 .108 .66 .031 .098 .063 .160 .39 .075 .211 .36



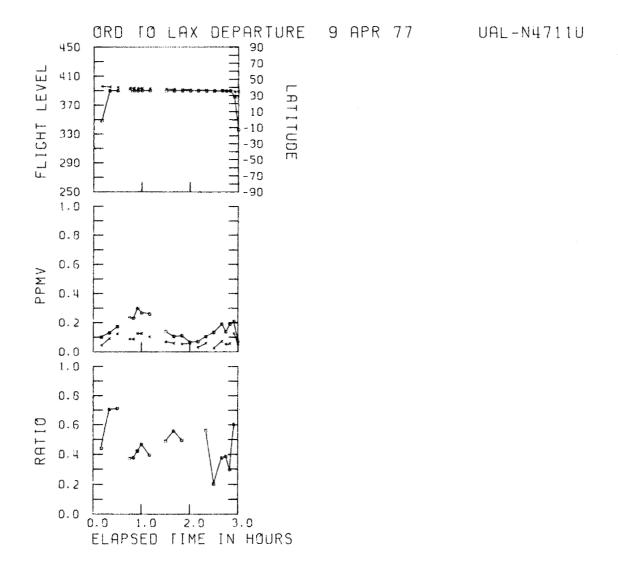
MAXIMUM VALUES: AMBIENT OZONE= .834 CABIN OZONE= .237 RATIO (LIMITER TO AMB. OZONE ABOVE U.1)= .56 TOTAL OBS IN CABIN: 9
DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LUNG TEMP OZUNE(PPM) (C) CABIN AME		MOZDAZYR GMT ETIM FE LAT HR:MN		OZONE (PPMV) RATIO CABIN AMB.
4/ 9/77 0224	0:13 375 36.47N	119.37W -61054 .10	0	4/ 9/77 0259 0:48 390 41.39N	120.94W -54.	.135 .504 .27
4/ 9/77 0234	0:23 390 37.86N	119.79W -62051 .19	1 •34	4/ 9/77 0304 0:53 390 42.07N	121.17w -52.	.137 .541 .25
4/ 9/77 0244	0:33 390 39.25N	120.23W -62127 .27	6 •56	4/ 9/77 0309 0:58 390 42.78N	121.43w -52.	.190 .834 .23
4/ 9/77 0254	0:43 390 40.67N	120.69W -55113 .58	34 • 19	4/ 9/77 0314 1:03 390 43.47N	121.68W -52.	.237 .520 .46
				4/ 9/77 0324 1:13 390 44.86N	122.21w -49.	.191 .503 .38



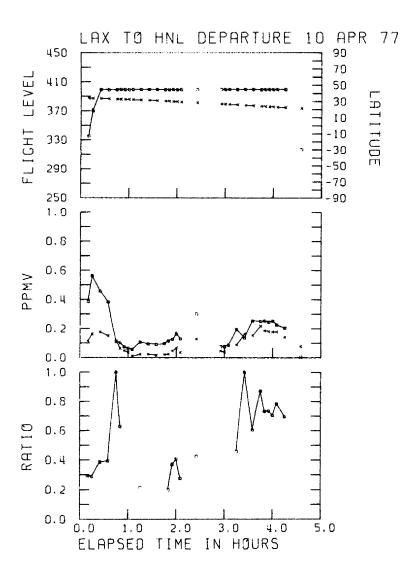
MAXIMUM VALUES: AMBIENT OZONE= .723 CABIN OZONE= .389 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .75 TOTAL OBS IN CABIN: 19
DATA SOURCE: GASP TAPE VLU12, FILE 2

MO/DA/YR GMT	ETIM HR:MN	. –	LAT	LONG	-		(PPMV) • BMB	RATIO	MOZNAZYR	GMT	ETIM FL L HR:MN	_AT			OZONE (		RATIO
4/ 9/77 1625 4/ 9/77 1635 4/ 9/77 1645 4/ 9/77 1700 4/ 9/77 1700 4/ 9/77 1710 4/ 9/77 1715 4/ 9/77 1725	0:20 0:30 0:40 0:45 0:50 0:55	370 370 410 409 409 409	47.51N 47.53N 47.50N 47.48N 47.44N 47.40N 47.35N	119.13W 117.03W 114.88W 112.79W 111.77W 110.77W 109.77W 108.74W 106.67W	-50 • -52 • -54 • -62 • -65 • -67 •	.368 .389 .335 .270 .200 .155	•533 •662 •661 •399 •265 •210 •161	.69 .59 .51 .68 .75 .72	4/ 9/77 4/ 9/77 4/ 9/77 4/ 9/77 4/ 9/77 4/ 9/77 4/ 9/77 4/ 9/77	1749 1759 1804 1809 1814 1819 1829 1839	1:24 409 46 1:34 410 46 1:44 409 46 1:54 410 45 1:54 410 45 1:59 410 45 2:04 409 45 2:24 410 44 2:34 330 43	5.66N 10 5.20N 10 5.95N 5 5.71N 5 5.45N 5 5.45N 5 4.62N 5 4.04N 5	01.97W 10.14W 99.24W 98.35W 97.47W 96.57W 94.78W 93.08W	-68. -68. -67. -66. -66. -65.	.065 .072 .069	•157 •191 •254 •308 •200 •282 •237 •266	.41 .38 .21 .26 .47 .26



MAXIMUM VALUES: AMBIENT OZONE= .299 CABIN OZONE= .126 RATIO (LIMITER TO AMB. OZONE ABOVE 0.1)= .71 TOTAL OBS IN CABIN: 20 DATA SOURCE: GASP TAPE VL012, FILE 2

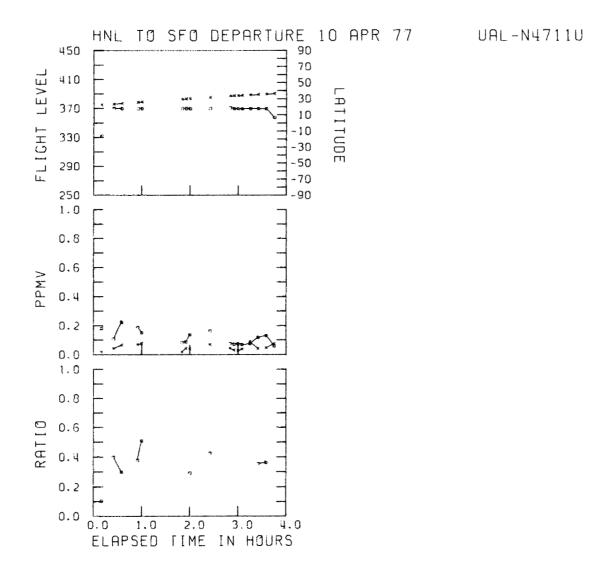
MO/DA/YR GMT	ETIM HR:MN		LAT	LONG T	_	OZONE (			MOZNAZYR	GMT	ETIM HŘ:MN		LAT	LONG		CABIN OZONE (	-	RAT10
4/ 9/77 2214		-	41.20N	90.60W -					4/ 9/77					106.30w				.50
4/ 9/77 2225	0:21	390	40.71N	92.23W -	65	• 091	•129	• / 1	4/10/77	0004	2:00	390	31.08W	107.75W	-61•	.059	• 066	
4/ 9/77 2234	0:30	390	40.21N	93.80W -	-64 •	.123	•173	•71	4/10/77	0014	2:10	390	36.75N	109.18W	-62.	.032	• 070	
4/ 9/77 2249	0:45	390	39.42N	96.13W -	-63•	.087	.233	• 37	4/10/77	0024	2:20	390	36.40N	110.58#	-62.	• 059	·105	.56
4/ 9/77 2254	0:50	390	39.15N	96.88W -	62.	.087	•231	•38	4/10/77	0034	2:30	390	36.05N	111.93W	-62.	.027	•133	.20
4/ 9/77 2259	0:55	390	38.91N	97.67W -	-60 •	.126	.299	• 42	4/10/77	0044	2:40	390	35.67N	113.30W	-61.	.072	•191	•38
4/ 9/77 2304	1:00	390	38.80N	98.47W -	-61-	.125	•268	• 47	4/16/77	0049	2:45	390	35.47N	11J.95W	-63a	.053	•137	•39
4/ 9/77 2314	1:10	390	38.55N	100.09W -	-62•	.103	• 260	<ul><li>40</li></ul>	4/10/77	0054	2:50	390	35.22N	114.58W	-02.	•056	•189	.30
4/ 9/77 2334	1:30	390	38.01N	103.25W -	61.	.068	•139	•49	4/10/77	0059	2:55	381	34.94N	115.20W	-59.	.125	•20H	.60
4/ 9/77 2345	1:41	390	37.71N	104.79w -	63•	.059	•106	•56	4/10/77	0104	3:00	336	34.66N	115.81W	-52.	.054	•07₺	



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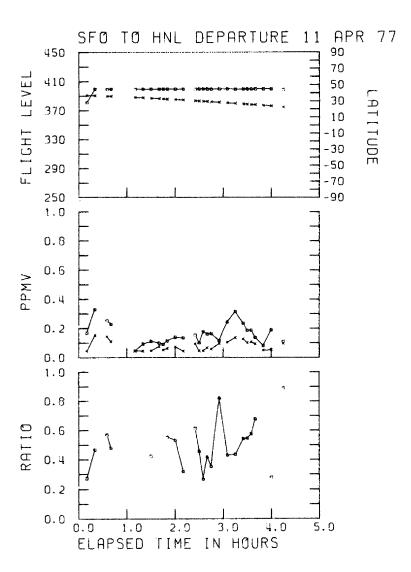
MAXIMUM VALUES: AMBIENT OZONE= .561 CABIN OZONE= .217 RATIO (LIMITER TO AMB. OZONE ABOVE 0.1)= 1.18 TOTAL OBS IN CABIN: 3V DATA SOURCE: GASP TAPE VL012, FILE 2

MU/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TEMP (C)	CARIN OZOMF (		RATIO	MOZGAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
4/10/77 0414 4/10/77 0419 4/10/77 0429 4/10/77 0439 4/10/77 0449 4/10/77 0459 4/10/77 0504 4/10/77 0519 4/10/77 0539 4/10/77 0549 4/10/77 0549 4/10/77 0554 4/10/77 0559	0:10 335 0:15 370 0:25 399 0:35 399 0:45 399 0:50 399 1:00 399 1:05 399 1:15 399 1:25 400 1:45 399 1:50 399	33.62N 33.42N 33.07N 32.71N 32.53N 32.34N 32.14N 31.96N 31.96N 31.16N 30.74N 30.30N 30.08N	120.97W -486 121.774W -516 123.24W -566 124.73W -596 126.19W -666 126.91W -656 127.64W -666 128.36W -666 131.93W -666 131.93W -666 131.93W -656 133.33W -656 134.73W -656 135.44W -656 136.15W -646	.162 .177 .151 .115 .064 .049 .038 .011 .023 .023	.458 .383 .111 .102 .075 .065 .057 .107 .095	.29 .39 .39 1.04 .63	4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77	0609 0629 0659 0704 0709 0719 0729 0739 07549 0755 0809 0819	2 2 2 3 3 3 3 3 3 3 3 4 4 1 0 5 4 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1	400 400 400 400 400 400 400 400 400 400	29.60N 29.37N 28.39N 26.83N 26.57N 26.29N 25.74N 25.17N 24.04N 23.75N 23.46N 23.18N 22.90N 21.18N	136.86W 137.55W 140.26W 144.22W 144.85W 145.52W 146.79W 148.05W 149.29W 150.50W 151.09W 151.66W 152.26W 152.83W 153.98W	-65. -62. -63. -63. -63. -62. -60. -59. -59. -59. -58.		.253 .249 .254 .244 .251 .226	.28 .43 .45 1.18 .60 .87 .73 .73



MAXIMUM VALUES: AMBIENT OZONE= .224 CABIN OZONE= .089 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .51 TOTAL OBS IN CABIN: 17 DATA SOURCE: GASP TAPE VLU12, FILE 2 AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

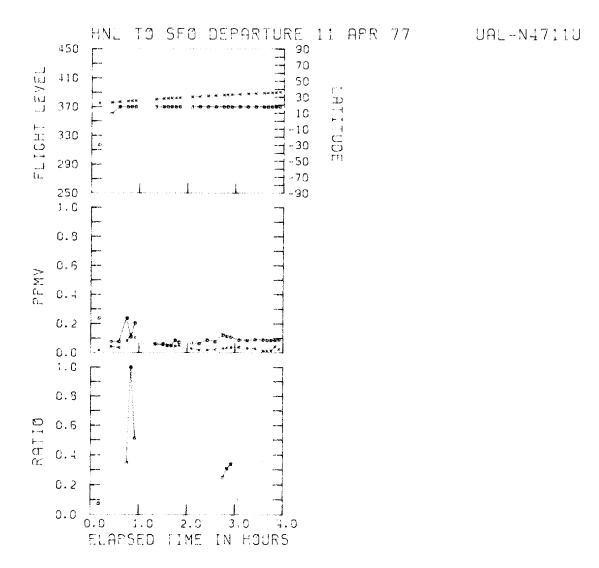
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LUNG	_	OZONE (		RATIO	MOZDAZYR	GMT	ETIM FL HR:MN	LAT	LONG		OZONE (		RAT10
4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77	2021 2031 2051 2056 2146 2151	0:25 0:35 0:55 1:00 1:50 1:55	370 370 370 370 370 370	23.53N 24.32N 25.82N 26.17N 29.59N 29.92N	155.79W 153.80W 152.46W 149.85W 149.22W 142.55W 141.83W 141.13W	+55. +56. +58. +58. +59. +58.	.043 .067 .071 .077 .019	•108 •224 •188 •152 •084	•40 •30 •38 •51	4/10/17 4/10/17 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77 4/10/77	2248A 2253 2258 2303 2313 2323 2333	2:5/ 370 3:02 370 3:0/ 370 3:1/ 370 3:2/ 370 3:3/ 370	33.40N 33.64N 33.92N 34.21N 34.74N 35.26N 35.75N	133.44%	-60. -60. -60. -60. -60.	.043 .030 .027 .037 .089 .042	.077 .072 .074 .069 .075 .118	•36



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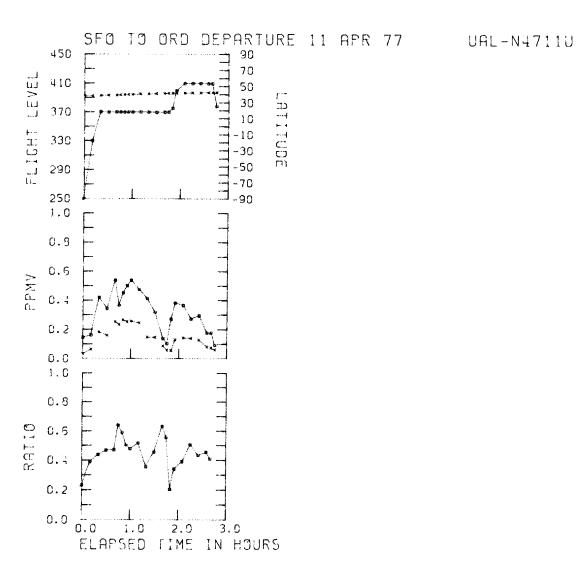
MAXIMUM VALUES: AMBIENT OZONE= .330 CABIN OZONE= .154 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .89 TOTAL OBS IN CABIN: 2/DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP (C)	OZONE(PPMV) CABIN AMB•		MO/DA/YR GM	T ETIM FL HR:MN	LAT LONG	TEMP (C)	OZONE (PPMV) CABIN AMB	
4/11/77 0211 4/11/77 0221 4/11/77 0236 4/11/77 0241 4/11/77 0311 4/11/77 0321 4/11/77 0341 4/11/77 0346 4/11/77 0351 4/11/77 0401 4/11/77 0411 4/11/77 0426	0:10 381 37.03N 0:20 400 36.64N 0:35 399 36.00N 0:40 400 35.78N 1:10 400 34.41N 1:20 400 33.38N 1:40 400 32.83N 1:45 400 32.56N 1:50 400 32.28N 2:00 400 31.70N 2:10 400 30.21N	126.30W -62. 128.47W -63. 129.19W -64. 133.29W -65. 134.66W -64. 136.06W -64. 137.43W -64. 138.09W -64. 140.13W -64.	.154 .330 .144 .253 .110 .229 .048 .044 .044 .093 .047 .111 .076 .099 .052 .091 .063 .114 .074 .139	.47 .57 .48 .42 .55 .53	4/11/77 043 4/11/77 043 4/11/77 044 4/11/77 045 4/11/77 050 4/11/77 051 4/11/77 053 4/11/77 053 4/11/77 054 4/11/77 056 4/11/77 056 4/11/77 056 4/11/77 060	6 2:35 400 2 1 2:40 400 2 2:45 400 2 6 2:55 400 2 6 3:55 400 2 6 3:15 399 2 6 3:25 400 2 6 3:35 400 2 6 3:35 400 2 1 3:50 400 2 1 3:50 400 2	24.58N 153.79 23.83N 154.95	W -64. W -64. W -64. W -62. BW -61. W -61. W -61. W -61. W -61. W -61.	.047 .176 .067 .161 .058 .164 .096 .117 .105 .244 .137 .315 .128 .236 .102 .187 .107 .186 .094 .139 .051 .082	.40 .27 .32 .382 .43 .54 .55 .55 .68



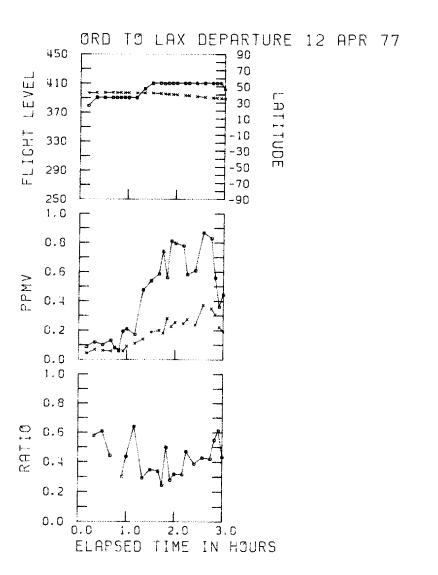
MAXIMUM VALUES: AMBIENT OZONE= .239 CABIN OZONE= .127 RATIO (LIMITER TO AMB. OZONE ABOVE 0.1)= 1.17 TOTAL OBS IN CABIN: 2/DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	- · · · · · · · · · · · · · · · · · · ·	(PPMV) RATIO ( N AMB.	- 0117	ETIM FL LAT HR:MN	LONG TEMP	OZONE (PPMV) RATIO CABIN AMB.
4/11/77 0904 4/11/77 0919 4/11/77 0929 4/11/77 0939 4/11/77 0944 4/11/77 1014 4/11/77 1024 4/11/77 1029 4/11/77 1039 4/11/77 104 4/11/77 104 4/11/77 104 4/11/77 104 4/11/77 1049	0:10 318 22.30N 0:25 360 23.45N 0:35 370 24.23N 0:45 370 25.00N 0:50 370 25.36N 0:55 370 25.72N 1:20 370 27.50N 1:30 370 28.19N 1:35 370 28.53N 1:40 370 28.87N 1:45 370 29.20N 1:50 370 29.53N 2:05 370 30.49N	155.83W -44. 01 153.91W -53. 04 152.61W -56. 03 151.30W -56. 08 150.66W -57. 12 150.03W -57. 10 146.71W -59. 06 145.36W -59. 05 144.68W -59. 04 144.00W -59. 05 143.31W -59. 04 142.62W -58. 05 140.52W -59. 03	0 •077 0 •239 •35 0 •109 1•17 0 •205 •51 1 •061 0 •064 0 •054 0 •050 0 •086 0 •074	4/11/77 1119 4/11/77 1129 4/11/77 1139 4/11/77 1144 4/11/77 1149 4/11/77 1159 4/11/77 1209 4/11/77 1219 4/11/77 1229 4/11/77 1234 4/11/77 1239 4/11/77 1244	2:15 370 31.10N 2:25 370 31.70N 2:35 370 32.28N 2:45 370 32.84N 2:50 370 33.311N 2:55 370 33.38N 3:05 370 33.89N 3:15 370 34.85N 3:25 370 34.85N 3:25 370 35.32N 3:45 370 35.75N 3:45 370 35.75N 3:45 370 36.02N 3:55 370 36.34N	137.69W -60. 136.26W -60. 134.80W -60. 134.08W -60. 133.36W -60. 131.93W -61. 130.48W -61. 129.02W -61. 127.51W -62. 126.02W -62.	.019 .087 .023 .077 .031 .124 .25 .035 .114 .31 .037 .109 .34 .039 .088 .031 .086 .028 .091 .012 .088 .013 .086



MAXIMUM VALUES: AMBIENT OZONE= .539 CABIN OZONE= .266 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .64 TOTAL OBS IN CABIN: 22 DATA SOURCE: GASP TAPE VL012, FILE 2

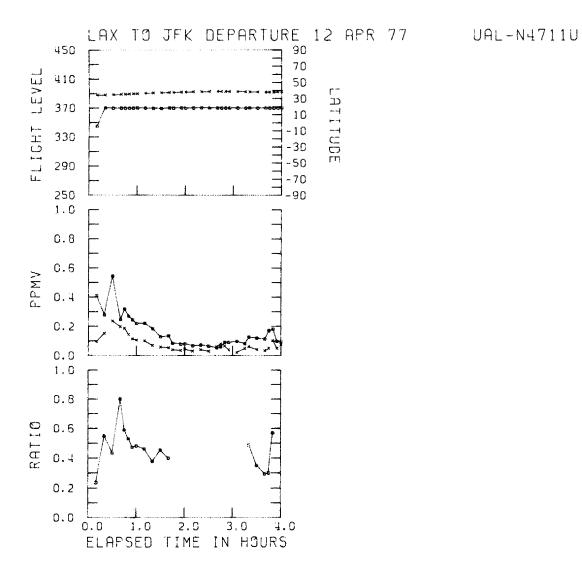
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	_	OZONE (		RATIO	MOZOAZYR	GMT	ETIM FI HR:MN	LAT	LONG		OZONE (		RATIO
4/11/77 4/11/77	-				121.33W 119.80W			•146 •162		4/11/77 4/11/77				105.63W 103.85W				
4/11/77		-			117.71W					4/11/77				102.94W				Ŧ
4/11/77 4/11/77	-				116.01W 114.34W					4/11/77 4/11/77	_		5 41.60N 0 41.71N	102.02W			•270 •382	
4/11/77	1928	0:47	370	39.60N	113.49W	-55.	.235	•367	•64	4/11/77	2048	2:07 41	41.91N	99.22W	-60.	.143	•366	.39
4/11/77 4/11/77		-			112.63W					4/11/77 4/11/77			0 42.07N 0 42.21N	97.30W 95.38W			•275 ' •295	• -
4/11/77	-	1:02	370	40.16N	110.91W	-54.	.258	•539	•48	4/11/77	2118	2:3/ 40	9 42.31N	93.48W	-65.	.081	•178	•
4/11/77 4/11/77	-				109.16W 107.40W					4/11/77 4/11/77			9 42.35N 8 42.38N	92.53W 91.57W		.073		. 41



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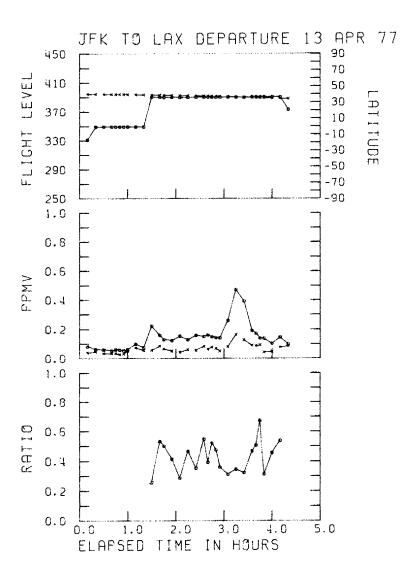
MAXIMUM VALUES: AMBIENT OZONE= .868 CABIN OZONE≃ .372 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .64 TOTAL OBS IN CABIN: 24 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OSONE	(PPMV) AMB•	RATIO	MOZDAZYŔ	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE( CABIN		RATIO
4/12/77	0108	0:12	380	42.11N	91.04W	-62.	.044	•089		4/12/77	0243	1:47	410	40.89N	106.23W	-52.	.182	•741	. 25
4/12/77	0118	0:22	390	42.37N	92.68W	-64.	.069	•119	•58	4/12/77	0248	1:52	410	40.62N	107.01w	-51.	.281	•563	.50
4/12/77	0128	0:32	390	42.61N	94.34W	-64.	.062	•102	•61	4/12/77	0253	1:57	410	40.26N	107.71W	-52.	.226	.811	.28
4/12/77	0138	0:42	390	42.58N	95.97W	-63•	.058	•131	• 4 4	4/12/77	0258	2:02	410	39.88N	108.39W	-51.	.254	•798	.32
4/12/77	0143	0:47	390	42.55N	96.78W	<del>-65</del> •	.064	.080		4/12/77	0308	2:12	410	39.06N	109.80W	-52.	.247	.780	.32
4/12/77	0148	0:52	390	42.52N	97.59W	-65.	.067	• 059		4/12/77	0313	2:17	410	38.67N	110.45W	-51.	.274	•584	.47
4/12/77	0153	0:57	391	42.48N	98.38W			•194	•30	4/12/77	0323	2:21	410	37.86N	111.77w	-50.	.237	•609	•39
4/12/77	0158	1:02	390	42.33N	99.14W	-64.	.091	•209	<b>ĕ</b> 44	4/12/77	0333	2:37	410	37.03N	113.07W	-51.	.372	.868	.43
4/12/77	0208	1:12	390	42.11N	100.74W				•64	4/12/77	0343	2:47	410	36.19N	114.35W	-51.	.349	.830	.44
4/12/77	0218	1:22	403	42.01N	102.40W	-57.	.140	•477	•29	4/12/77	0348	2:52	410	35.77N	114.96W	-53.	.306	•560	.55
4/12/77	0228	1:32	410	41.85N	104.03W	-57.	.189	•541	•35	4/12/77	0353	2:57	410	35.35N	115.56W	-54.	.221	•361	.61
4/12/77	0238	1:42	410	41.24N	105.48W	-55.	.200	•587	•34	4/12/77	0358	3:02	402	34.94N	116.20W	-54.	.193	• 445	.43



MAXIMUM VALUES: AMBIENT OZONE= .544 CABIN OZONE≃ .237 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .80 TOTAL OBS IN CABIN: 31 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZUNE CABIN		RATIO	MO/DA/YR	GMT	ETIM 9 HR:MN	FL LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RATIO
4/12/77 2046 4/12/77 2056 4/12/77 2106 4/12/77 2116 4/12/77 2121 4/12/77 2136 4/12/77 2136 4/12/77 2136 4/12/77 2136 4/12/77 2136 4/12/77 2206 4/12/77 2216 4/12/77 2221 4/12/77 2231 4/12/77 2236	0:20 0:30 0:40 0:45 0:50 0:55 1:00 1:10 1:30 1:40 1:45	370 370 370 370 370 370 370 370 370 370	33.86N 34.28N 34.74N 35.20N 35.42N 35.64N 35.86N 36.07N 36.86N 37.22N 37.55N 37.71N 38.01N 38.14N	116.40W 114.93W 113.39W 111.77W 110.93W 110.09W 109.25W 106.66W 104.91W 103.11W 101.32W 100.41W 98.54W 97.58W	-53. -53. -57. -56. -56. -57. -57. -58. -59. -60. -61.	.106 .102	.279 .544 .247 .317 .271 .245 .220 .221 .185 .130 .135	.55 .44 .80 .59 .53 .47 .48 .46	4/12/77 4/12/77 4/12/77 4/12/77 4/12/77 4/12/77 4/12/77 4/12/77 4/13/77 4/13/77 4/13/77 4/13/77 4/13/77	2256 2306 2316 2321 2326 2331 2341 2351 0000 0010 0016 0021 0026 0031	2000 2000 2000 2000 2000 2000 2000 200	70 38.37N 71 38.57N 70 38.74N 70 38.87N 70 38.85N 70 38.83N 70 38.79N 70 38.79N 71 38.45N 70 38.29N 70 38.19N 71 38.09N 71 38.09N 70 38.38N 71 39.01N	95.71W 93.88W 92.06W 90.29W 89.41W 88.52W 87.63W 85.86W 84.33W 82.33W 80.57W 79.70W 77.98W 77.95W	-59. -59. -59. -59. -59. -59. -59. -58. -57. -58. -57.	.031 .041 .030 .062 .080 .066 .039 .022 .049 .062 .042 .034 .051 .103	.068 .073 .065 .055 .061 .091 .098 .127 .120 .115 .170 .181	•

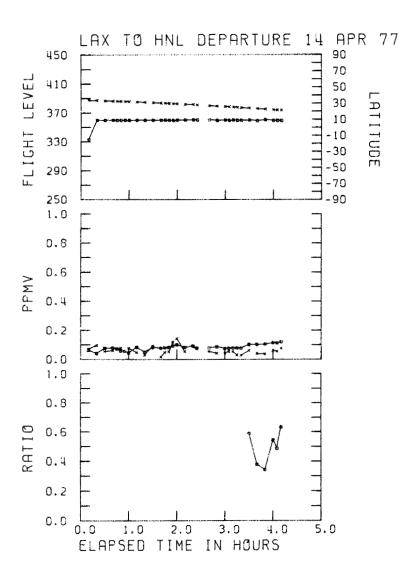


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JFK TO LAX (PAGE 1 OF 1) DEPARTURE: 13 APR 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT DZONE= .471 CABIN DZONE= .163 RATIO (LIMITED TO AMB. DZONE ABOVE 0.1)= .67 TOTAL OBS IN CABIN: 32 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT			OZONE (		RATIO	MOVDAVYR	GMT	ETIM HR:MN	۴L	LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RAT10
4/13/77 1 4/13/77 1 4/13/77 1	750	0:20	349	40.03N 39.99N 40.01N	76.67W - 78.33W - 79.97W -	-55•	.040 .047 .035	•082 •061 •060		4/13/77 4/13/77 4/13/77	2005	2:35	390	37.92N 37.68N 37.56N	97.80W 99.23W 99.94W	-64.	.056 .082 .063	•158 •150 •160	
4/13/77 1 4/13/77 1 4/13/77 1	1810 1815	0:40 0:45	349 349	39.94N 39.87N 39.80N	81.58W - 82.39W - 83.19W -	-55• -55•	.034 .035	•053 •060 •058		4/13/77 4/13/77 4/13/77	2015 2020	2:45 2:50	390 390	37.43N 37.29N 37.14N	100.66W 101.39W 102.13W	-62. -6J.	.077 .068	•148 •143 •141	.52
4/13/77 1 4/13/77 1 4/13/77 1	1825 1830	0:55 1:00	349 349	39.72N 39.63N 39.44N	84.00W - 84.80W - 86.41W -	-55• -55•	.032	•054 •060 •099		4/13/77 4/13/77 4/13/77	2035 2045	3:05 3:15	391 390	36.84N 36.50N 36.25N	103.61W 105.13W 106.65W	-60. -59.	.081 .163	•259 •471	.31
4/13/77 4/13/77	1850 1900	1:20 1:30	349 390	39.23N 39.00N	88.00W - 89.59W -	-56 • -61 •	.055 .057	•074 •222		4/13/77 4/13/77	2105 2110	3:35 3:40	391 391	35.86N 35.66N	108.14W 108.89W	-61. -62.	.089 .087	•191 •172	.47 .51
4/13/77 1 4/13/77 1 4/13/77 1	1915 1925	1:45 1:55	390 390	38.77N 38.69N 38.52N	91.13W - 91.90W - 93.41W -	-64 • -65 •	.085 .065	•160 •130 •123	•53 •50 •41	4/13/77 4/13/77 4/13/77	2120 2130	3:50 4:00	391 391	35.49N 35.32N 35.04N	109.67W 110.46W 112.05W	-62. -62.	.093 .043 .047	•138 •137 •103	-
4/13/77 1 4/13/77 1	-			38.34N 38.13N	94.92W - 96.38W -	- , -	.044	•153 •129	•29 •47	4/13/77 4/13/77				34,67N 34,29N	113.59W 115.07W		.077 .086	•144 •099	.53

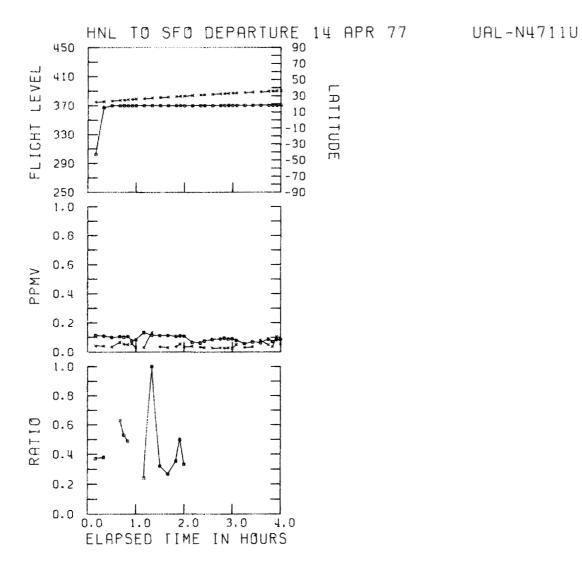


UAL-N4711U

LAX TO HNL (PAGE 1 OF 1) DEPARTURE: 14 APR 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE= .120 CABIN OZONE= .143 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.42 TOTAL OBS IN CABIN: 31 DATA SOURCE: GASP TAPE VL012, FILE 2

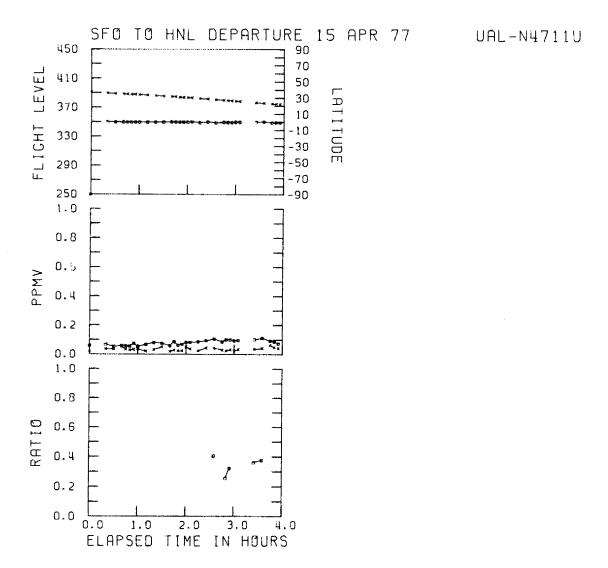
MO/DA/YR GM	T ETIM HR:MN		LAT			CARIN W	4V) R	ATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE( CABIN	PPMV) AMB.	RATIO
4/14/77 010 4/14/77 011 4/14/77 012 4/14/77 013 4/14/77 013 4/14/77 014 4/14/77 015 4/14/77 021 4/14/77 021 4/14/77 021	1 0:10 1 0:20 1 0:30 1 0:40 6 0:45 6 0:55 1 1:00 1 1:10	333 360 360 360 360 360 360 360 360	33.88N 33.57N 33.23N 32.88N 32.70N 32.52N 32.52N 32.13N 31.72N 31.28N 30.82N	120.99W 122.40W 123.87W 125.36W 126.12W 126.67W 127.67W 128.43W 129.98W 131.53W	-53. -59. -59. -59. -58. -57. -57. -57.	.072 .096 .095 .055 .062 .073 .077 .078 .046 .030	963 940 977 980 973 956 945 983		4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77	0311 0317 0332 0342 0352 0357 0402 0407 0412	2:10 2:20 2:20 2:41 2:51 3:01 3:16 3:16	361 360 361 360 360 360 360 360 360	28.29N 27.95N 27.09N 26.49N	139.09W 140.55W 141.43W 143.61W 145.05W 146.48W 147.20W 147.20W 148.63W 149.33W 159.71W	-56. -56. -55. -55. -55. -54. -54.	.052 .087 .073 .053 .041 .042 .052 .052	.083 .093 .079 .086 .074 .076 .078	•59
4/14/77 023 4/14/77 023 4/14/77 024 4/14/77 024 4/14/77 025	6 1:45 1 1:50 6 1:55	360 360 360	30.35N 30.11N 29.86N 29.61N 29.36N	134.60W 135.36W 136.11W 136.86W 137.60W	-56 • -56 •	.047 .0 .051 .0 .119 .0	)77 )81 )82 )93 [0] ]	.•42	4/14/77 4/14/77 4/14/77 4/14/77 4/14/77	0442 0452 0457	3:51 4:01 4:06	361 360 360	23.29N 22.63N 21.98N 21.66N 21.36N	152.06W 153.37W 154.65W 155.28W 155.91W	-52. -52. -51.	.039 .036 .062 .055	•103 •105 •114 •113 •120	.38 .34 .54 .49 .63



HNL TO SFO (PAGE 1 OF 1) DEPARTURE: 14 APR 77 AIRCRAFT: UAL-N4711U

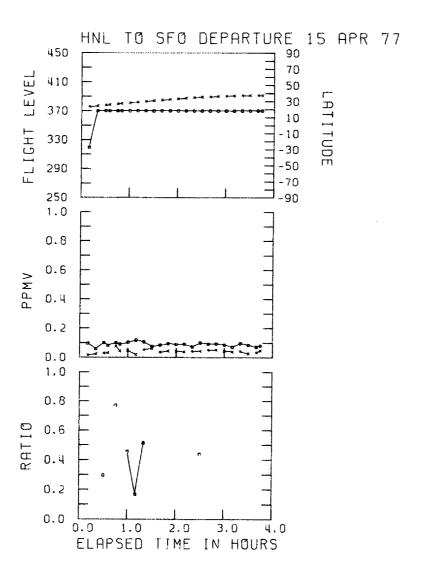
MAXIMUM VALUES: AMBIENT OZONE= .133 CABIN OZONE= .132 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.15 TOTAL OBS IN CABIN: 31 DAT4 SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TEM	CABIN CABIN		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE( CABIN		RATIO
4/14/77 2009 4/14/77 2019 4/14/77 2029 4/14/77 2039 4/14/77 2044 4/14/77 2054 4/14/77 2059 4/14/77 2119 4/14/77 2129 4/14/77 2139 4/14/77 2149 4/14/77 2154 4/14/77 2159	0:10 302 0:20 367 0:30 370 0:40 370 0:45 370 0:55 370 1:00 370 1:10 370 1:20 370 1:30 370 1:40 370 1:50 370 1:55 370 2:00 370	23.00N 23.86N 24.59N 24.95N 25.30N 25.64N 25.98N 26.65N 27.30N 27.95N 28.59N 29.21N 29.51N	155.70w -38 154.63w -53 153.21w -53 151.97w -54 151.36w -54 150.75w -54 150.14w -55 149.54w -56 147.11w -57 145.87w -57 144.59w -57 142.68w -57 142.02w -57		.099 .105 .102 .106 .078 .083 .133 .115 .112 .112	.38 .63 .53 .49 .24 1.15 .32 .27 .36 .50	4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77 4/14/77	2219 2224 2234 2244 2254 2259 2304 2314 2334 2334 2334 2334 2354	2:25 5 3 3 3 3 5 5 5 3 3 3 5 5 5 5 5 5 5 5	370 370 370 370 370 370 370 370 370 370	31.04N 31.34N 31.93N 32.50N 32.79N 33.08N	140.69W 139.33W 138.64W 137.24W 135.82W 135.09W 134.35W 133.68W 131.38W 129.82W 128.25W 126.68W 125.98W 125.98W 125.98W 124.45W	-57. -57. -57. -56. -56. -56. -57. -57. -57. -57. -57.	.039 .033 .029 .026 .027 .026 .027 .025 .030 .035 .080 .049 .037 .104	.066 .062 .075 .084 .087 .093 .087 .089 .075 .068 .063 .087 .071	



MAXIMUM VALUES: AMBIENT OZONE= .112 CABIN OZONE= .063 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .41 TOTAL OBS IN CABIN: 30 DATA SOURCE: GASP TAPE VL012, FILE 2

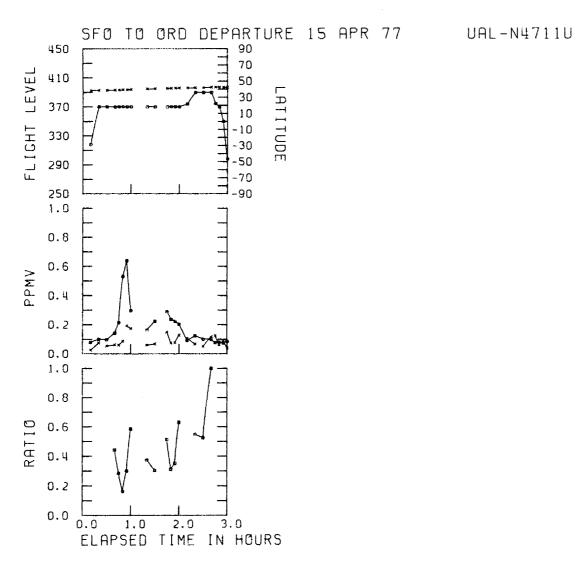
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE ( CABIN		RATIO
4/15/77	0401	0:00	215	37.09N	123.62W	-21.	.019	•060		4/15/77	0601	2:00	350	30.30N	140.92W	-51.	.050	-082	
4/15/77	0421	0:20	350	35.66N	126.32W	-52•	.037	•067		4/15/77	0606	2:05	350	29.97N	141.63W	-52.	.037	•083	
4/15/77	0431	0:30	350	35.22N	127.82W	-52.	.036	• 052		4/15/77	0617	2:16	349	29.29N	143.10W	-51.	.026	.087	
4/15/77	0441	0:40	350	34.76N	129.31W	-52•	.053	• 059		4/15/77	0627	2:26	350	28.62N	144.49W	-51.	.044	• 095	
4/15/77	0446	0:45	350	34.52N	130.05W	-52.	.035	• 057		4/15/77	0637	2:36	349	27.92N	145.87W	-51.	.043	•106	.41
4/15/77	0451	0:50	350	34.27N	130.79W	-52.	.030	• 055		4/15/77	0647	2:46	350	27.22N	147.22W	-51.	.030	• 086	
4/15/77	0456	0:55	350	34.02N	131.53W	-52-	.033	• 075		4/15/77	0652	2:51	350	26.86N	147.89W	<b>~50.</b>	.026	•101	. 26
4/15/77	0501	1:00	350	33.77N	132.26W	-52•	.037	• 052		4/15/77	0657	2:56	<b>35</b> 0	26.50N	148.55W	-50.	.032	.100	
4/15/77	0511	1:10	350	33.24N	133.73w	-52.	.022	•067		4/15/77	0702	3:01	350	26.14N	149.21W	-51.	.025	.094	
4/15/77	0521	1:20	350	32.69N	135.17W	-51.	.032	•080		4/15/77	0707	3:06	350	25.78N	149.86W	-50.	.034	• 096	
4/15/77	0531	1:30	350	32.13N	136.61W	-51.	.051	•075		4/15/77	0727	3:26	350	24.33N	152.40W	-50.	.037	.103	.36
4/15/77	0541	1:40	3 <b>5</b> 0	31.53N	138.05W	-52.	.021	•059		4/15/77	0737	3:30	350	23.59N	153.64W	-49.	.042	•112	
4/15/77	0546	1:45	350	31.23N	138.77W	-51.	.029	•087		4/15/77	0747	3:46	349	22.90N	154.88W	-48.	.063	• 093	-
4/15/77	0551	1:50	350	30.92N	139.49W	-52.	.025	•063		4/15/77	0752	3:51	350	22.55N	155.48W	-46.	.048	.087	
4/15/77	0556	1:55	350	30.61N	140.21W	-52•	.025	•070		4/15/77	0757	3:56	349	22.21N	156.09W	-45.	.041	•074	



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MAXIMUM VALUES: AMBIENT OZONE= .118 CABIN OZONE= .078 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .77 TOTAL OBS IN CABIN: 24 DATA SOURCE: GASP TAPE VL012, FILE 2

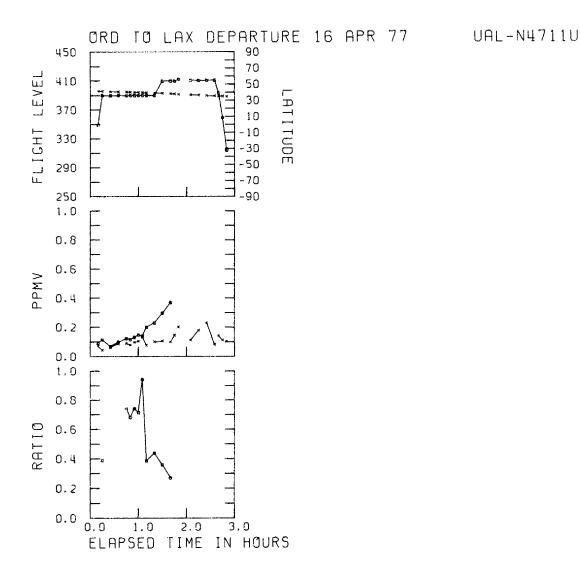
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)		(PPMV) AMB•	RATIO	MOZĐAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE ( CABIN		RATIO
4/15/77	1031	0:10	319	23.14N	156.58W	-43.	.017	•097		4/15/77	1223	2:02	370	33.21N	143.01W	-57.	.044	.089	
4/15/77	1041	0:20	370	24.31N	155.99W	-50.	.024	• 059		4/15/77	1233	2:12	370	34.02N	141.57W	-57.	.039	•092	
4/15/77	1051	0:30	370	25.24N	154.80W	-54.	.030	·101	•30	4/15/77	1243	2:22	370	34.83N	140.10W	-57.	.042	.074	
4/15/77	1057	0:36	370	25.82N	154.04W	-56.	.032	•083		4/15/77	1253	2:32	370	35.31N	138.41W	-57.	.044	.100	
4/15/77	1107	0:46	370	26.72N	152.84W	-56.	.078	-101	•77	4/15/77	1302	2:41	370	35.75N	136.68W	-57.	.051	.093	
4/15/77	1113	0:52	370	27.17N	152.23W	-56.	.045	.092		4/15/77	1313	2:52	370	36.16N	134.94W	-57.	.051	•094	
4/15/77	1123	1:02	370	28.05N	151.01W	-57.	.048	•105	•46	4/15/77	1323	3:02	370	36.54N	133.16W	-57.	.043	.087	
4/15/77	1133	1:12	370	28.93N	149.75W	-56.	.020	•118	•17	4/15/77	1333	3:12	370	36.90N	131.38W	-58.	.039	.072	
4/15/77	1143	1:22	370	29.81N	148.45W	-57.	.055	•107	•51	4/15/77	1343	3:22	370	37.23N	129.59W	-58.	.042	•096	
4/15/77	1153	1:32	370	30.68N	147.13W	-58.	.062	•076		4/15/77	1353	3:32	370	37.34N	127.76W	-58.	.027	.085	
4/15/77	1203	1:42	370	31.53N	145.79W	-57.	.037	•086		4/15/77	1402	3:41	370	37.39N	125.91W	<b>-57.</b>	.035	.072	
4/15/77	1213	1:52	370	32.38N	144.41W	-57.	.045	• 095		4/15/77	1407	3:46	370	37.40N	124.99W	-58.	.047	•081	



SFO TO ORD (PAGE 1 OF 1) DEPARTURE: 15 APR 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT DZONE= .639 CABIN DZONE= .192 RATIO (LIMITED TO AMB. DZONE ABOVE 0.1)= .63 TOTAL OBS IN CABIN: 22 DATA SOURCE: GASP TAPE VL012, FILE 2

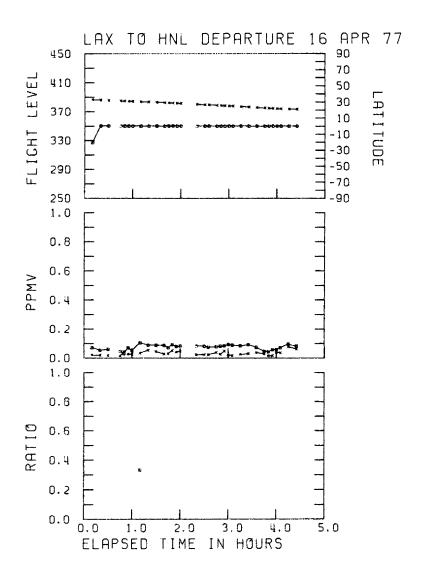
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (		RATIO
4/15/77	1850	0:10	318	38.33N	119.54W	-47.	.026	•079		4/15/77	2030	1:50	370	41.24N	103.38W	-57.	.074	•237	.31
4/15/77	1900	0:20	370	38.59N	117.86W	-59•	.075	•099		4/15/77	2035	1:55	370	41.36N	102.55W	-58.	.078	•222	.35
4/15/77	1910	0:30	370	38.83N	116.14W	-60.	.056	•097		4/15/77	2040	2:00	370	41.47N	101.71W	-58.	.128	.203	.63
4/15/77	1920	0:40	370	39.06N	114.46W	-61.	.063	•142	.44	4/15/77	2050	2:10	374	41.70N	99.90W	-60.	.107	•092	
4/15/77	1925	0:45	370	39.19N	113.65W	-57.	.061	•214	•29	4/15/77	2100	2:20	390	41.90N	98.05W	-64.	.068	•124	•55
4/15/77	1930	0:50	370	39.39N	112.88W	-59.	.087	•531	•16	4/15/77	2110	2:30	390	42.07N	96.17W	-64.	.053	.101	.52
4/15/77	1935	0:55	370	39.57N	112.10w	-54.	.192	•639	•30	4/15/77	2120	2:40	390	42.57N	94.47W	-64.	.117	•100	
4/15/77	1940	1:00	370	39.75N	111.33W	-59.	.173	•296	•58	4/15/77	2125	2:45	375	42.65N	93.58W	-61.	.124	.077	
4/15/77	2000	1:20	370	40.40N	108.26W	-57.	.061	•163	• 37	4/15/77	2130	2:50	370	42.45N	92.75W	-59.	.063	.080	
4/15/77	2010	1:30	370	40.70N	106.64W	-60.	.068	•223	•30	4/15/77	2135	2:55	350	42.37N	91.90W	-55.	.085	.075	
4/15/77	2025	1:45	370	41.11N	104.20W	<del>-</del> 55•	.148	•289	•51	4/15/77	2140	3:00	298	42.45N	91.06W	-42.	.040	•085	



MAXIMUM VALUES: AMBIENT OZONE= .370 CABIN OZONE= .230 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .94 TOTAL OBS IN CABIN: 22 DATA SOURCE: GASP TAPE VL012, FILE 2

AN "A" AFTER THE GMT BELOW DENOTES MORE THAN ONE OBSERVATION WAS AVERAGED

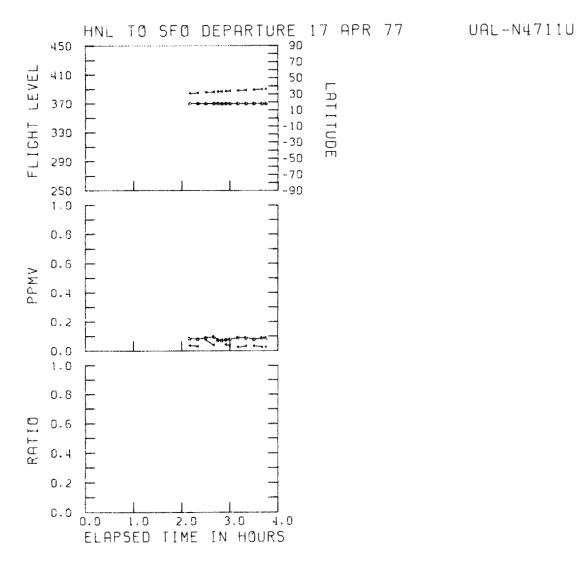
	€TIM HR∶MN	FĻ	LAT	LONG	TEMP (C)		(PPMV) AMB.	RATIO	MOZĐAZYŘ	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP (C)	OZONE (F		RAT10
4/16/77 0123 4/16/77 0132 4/16/77 0138 4/16/77 0148 4/16/77 0203 4/16/77 0203 4/16/77 0213 4/16/77 0218 4/16/77 0218 4/16/77 0227A	0:19 0:25 0:35 0:45 0:50 0:55 1:00	390 390 390 390 390 390 390	41.39N 41.23N 40.98N 40.70N 40.40N 40.24N 40.08N 39.90N 39.72N 39.38N	90.66W 91.46W 93.11W 94.76W 96.40W 97.21W 98.01W 98.05W 199.65W	-64. -64. -62. -61. -61. -60.	.044 .063 .087 .091 .079 .097 .105	•098 •123 •116 •131 •147 •139	•74 •68 •74 •71	4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77	0253 0259 0306A 0319 0329 0339 0349 0354	1:40 4 1:46 4 1:53 4 2:06 4 2:16 4 2:26 4 2:36 4	10 12 11 11 11 11 11	38.29N 37.98N 37.65N 37.02N 36.48N 36.01N 35.54N 35.30N	103.58W 105.22W 106.30W 107.42W 109.40W 111.00W 112.55W 114.13W 114.89W 115.67W	-57. -55. -54. -53. -50. -55. -58.		•296 •370	·



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MAXIMUM VALUES: AMBIENT OZONE= .105 CABIN OZONE= .078 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .33 TOTAL OBS IN CABIN: 33 DATA SOURCE: GASP TAPE VL012, FILE 2

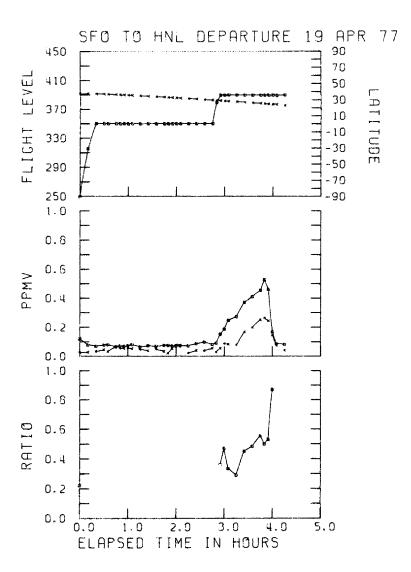
MO/DA/YR GMT	ETIM FE HR:MN	L LAT	LUNG TEMP	CARIN OZONE		RATIO	MO/NA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE ( CABIN	PPMV) AMB.	RATIO
4/16/77 1818 4/16/77 1828 4/16/77 1838 4/16/77 1858 4/16/77 1903 4/16/77 1908 4/16/77 1928 4/16/77 1938 4/16/77 1948 4/16/77 1953 4/16/77 1958 4/16/77 2003 4/16/77 2008 4/16/77 2028	0:20 35 0:30 35 0:45 35 0:50 35 1:00 35 1:10 35 1:20 35 1:40 35 1:45 35 1:45 35 1:50 35 2:00 35	7 33.10N 0 32.63N 0 32.16N 0 31.61N 0 31.42N 0 31.22N 0 31.02N 0 30.60N 0 30.16N 0 29.71N 0 29.25N 0 29.01N 1 28.77N 0 28.53N 0 28.29N 0 27.28N	121.52W -47. 122.96W -53. 124.43W -53. 126.74W -53. 127.51W -53. 128.27W -53. 129.03W -54. 130.54W -53. 132.05W -53. 133.53W -53. 134.98W -53. 135.70W -53. 137.12W -53. 137.80W -52. 140.56W -53.	.020 .019 .016 .045 .028 .035 .054 .049 .031	.054 .061 .047 .031 .071 .053 .105 .089 .088 .072 .092	•33	4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77 4/16/77	2043 2053 2058 2103 2108 2113 2123 2133 2143 2153 2208 2213 2223	2422333333333334444	350 350 350 350 350 350 350 350 350 350	26.75N 26.49N 25.96N 25.69N 25.69N 25.42N 25.15N 24.87N 23.75N 23.75N 23.75N 23.18N 22.61N 22.32N 22.03N 21.74N 21.51N 21.31N 20.97N	141.92W 142.59W 143.88W 144.53W 145.81W 145.81W 146.45W 147.69W 150.14W 150.15W 151.35W 151.94W 152.52W 153.09W 153.67W 153.67W 153.83W	-53. -52. -52. -52. -51. -51. -50. -47. -46. -43. -43. -42.	.024 .023 .038 .026 .049 .022 .016 .026 .031 .038 .029 .016 .017 .040 .036 .078	.081 .075 .082 .084 .092 .088 .084 .094 .074 .048 .057 .059 .071	



HNL TO SFO (PAGE 1 OF 1) DEPARTURE: 17 APR 77 AIRCRAFT: UAL-N471]U

MAXIMUM VALUES: AMBIENT OZONE= .096 CABIN OZONE= .076 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)=\*\*\*\*\* TOTAL OBS IN CABIN: 13 DATA SOURCE: GASP TAPE VL012, FILE 2

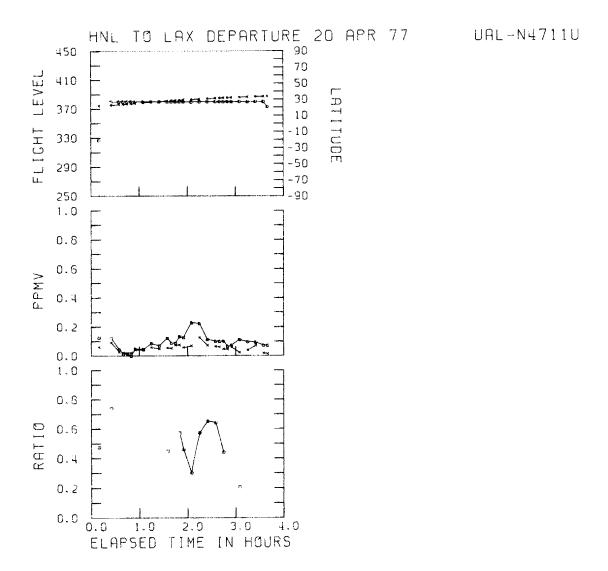
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RAT (C) CABIN AMB.	IO MO/na/YR GMT ETIM FL LAT HŘÍMN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
4/17/77 0314 4/17/77 0324 4/17/77 0334 4/17/77 0344 4/17/77 0349 4/17/77 0354	2:20 370 31.66N 2:30 370 32.27N 2:40 370 32.86N 2:45 370 33.16N	139.33W -60038 .085 137.89W -59032 .081 136.42W -59076 .089 134.93W -59040 .096 134.17W -59070 .076 133.40W -59076 .070	4/17/77 0404 3:00 370 34.01N 4/17/77 0414 3:10 370 34.56N	125.34W -58027 .088



UAL-N4711U

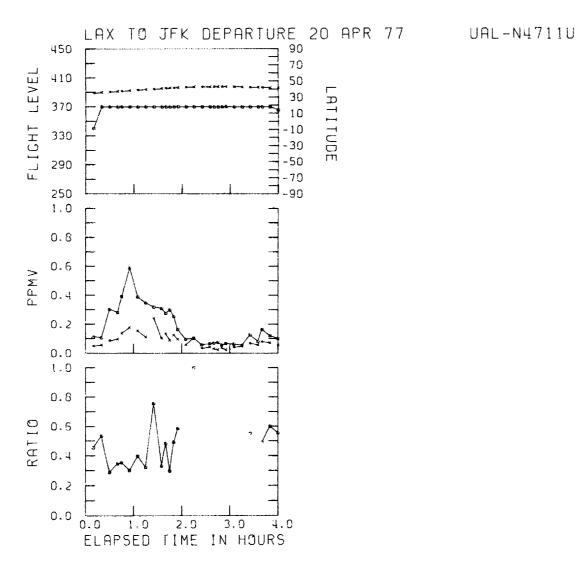
MAXIMUM VALUES: AMBIENT OZONE= .528 CABIN OZONE= .264 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .87 TOTAL OBS IN CABIN: 35 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL HR:MN	LAT	LONG TEM		(PPMV) AMB•	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (	PPMV) AMB.	RATIO
4/19/77 1745 4/19/77 1755 4/19/77 1805 4/19/77 1815 4/19/77 1830 4/19/77 1835 4/19/77 1845 4/19/77 1845 4/19/77 1850 4/19/77 1910 4/19/77 1920 4/19/77 1930 4/19/77 1935 4/19/77 1945 4/19/77 1945	0:00 217 0:10 316 0:20 350 0:30 350 0:35 350 0:45 350 0:50 350 1:00 350 1:05 350 1:25 350 1:35 350 1:45 350 1:50 350 2:00 350	37.76N 37.60N 37.17N 36.95N 36.49N 36.25N 36.01N 35.76N 35.51N 34.99N 34.45N 33.90N 33.33N 33.04N 32.75N	123.74w -24 125.17w -48 126.64w -56 128.14w -56 128.88w -56 130.36w -56 131.09w -56 131.81w -56 132.53w -56 133.25w -56 134.67w -56 137.48w -56 137.48w -56 139.53w -56 140.88w -59	. 029 . 039 . 044 . 054 . 056 . 057 . 058 . 058 . 054 . 054	0 078 0 070 0 078 0 080 0 066 0 071 0 069 0 074 0 081 3 065 0 073 0 079 0 076 0 075		4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77 4/19/77	2000 2010 2020 2030 2030 2035 2045 2045 2100 2110 2120 2130 2130 2140 2145 2150	1.0.5.0.5.0.5.0.5.0.5.0.5.0.5.0.5.0.5.0.	350 350 350 350 390 390 390 390 390 390 390 390	32.16N 31.55N 30.92N 30.27N 29.62N 29.62N 28.95N 28.62N 28.29N 27.59N 26.24N 25.59N 26.24N 25.59N 24.15N 24.15N 24.15N		-55. -55. -54. -62. -64. -64. -60. -57. -55. -51.	.023 .040 .039 .055 .030 .055 .088 .083 .079 .168 .199 .252 .264 .245	.072 .0787 .088 .089 .091 .157 .278 .272 .411 .455 .462 .082	.47 .33 .29



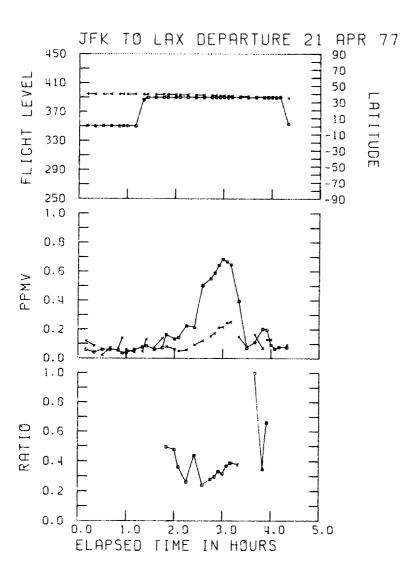
MAXIMUM VALUES: AMBIENT OZONE= .228 CABIN OZONE= .127 RATIO (LIMITE) TO AMB. OZONE ABOVE 0.1)= .74 TOTAL OBS IN CABIN: 27 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN	(PPMV) AMB•	RATIO	MO/DA/YR	GMT	ETIM HŘÍMN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RATIO
4/20/77	0016	0:10	327	21.97N	155.16W	-44.	.060	•126	•48	4/20/77	0201	1:55	380	29.36N	137.56W	-58.	.058	•126	.46
4/20/77	1600	0:25	380	22.88N	152.87W	-54.	.092	•124	•74	4/20/77	0211	2:05	380	29.93N	135.88W	-57.	.069	•228	.30
4/20/77	0041	0:35	380	23.65N	151.31W	-55.	.028	• 044		4/20/77	1550	2:15	380	30.46N	134.23W	-59.	.127	.222	.57
4/20/77	0046	0:40	380	24.03N	150.51W	-56•	.022	•012		4/20/77	0231	2:25	380	30.94N	132.67W	-60.	.073	•112	.65
4/20/77	0051	0:45	380	24.41N	149.71W	-55.		•015		4/20/77	0241	2:35	380	31.40N	131.09W	-61.	.064	•100	
4/20/77	0056	0:50	380	24.79N	148.89W	-55.	.021	0.000		4/20/77	0246	2:40	380	31.63N	130.30W	-60.	.060	•099	
4/20/77	0101	0:55	380	25.17N	148.07W	-55.	.042	•048		4/20/77	0251	2:45	380	31.84N	129.50W	-61.	.045	•102	.44
4/20/77	0111	1:05	380	25.92N	146.36W	<del>-55•</del>	.041	• 045		4/20/77	0256	2:50	380	32.06N	128.70W	-62.	.045	•067	
4/20/77	0121	1:15	380	26.67N	144.60W	-55.	.059	-086		4/20/77	0301	2:55	380	32.27N	127.89W	-62.	.060	.073	
4/20/77	0131	1:25	380	27.40N	142.81W	-55•	.048	•070		4/20/77	0311	3:05	380	32.66N	126.27W	-62.	.023	.111	.21
4/20/77	0141	1:35	380	28.08N	141.08W	-56 •	.055	•122	• 45	4/20/77	0321	3:15	380	33.04N	124.65W	-62.	.039	•096	
4/20/77	0146	1:40	380	28.41N	140.20W	-57.	.052	•089		4/20/77	0331	3:25	380	33.32N	123.00W	-62.	.071	•093	
4/20/77	0151	1:45	380	28.74N	139.31W	-57.	.075	•087		4/20/77	0341	3:35	380	33.57N	121.33W	-62.	.019	.073	
4/20/77	0156	1:50	380	29.06N	138.42W	-58.	.076	•133	•57	4/20/77	0346	3:40	373	33.68N	120.48W	<b>-61</b> .	.013	.071	



MAXIMUM VALUES: AMBIENT OZONE= .588 CABIN OZONE= .24] RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.01 TOTAL OBS IN CABIN: 29 DATA SOURCE: GASP TAPE VL012, FILE 2

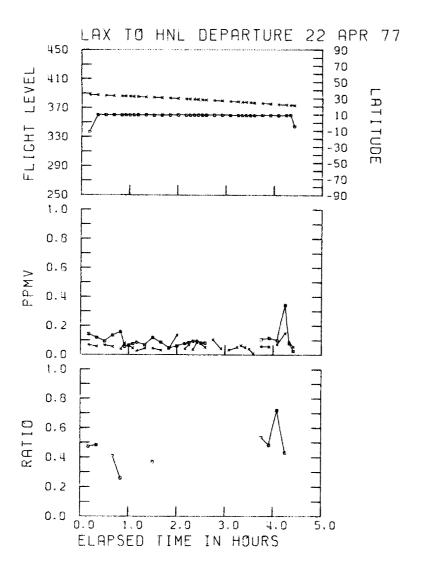
MO/DA/YR GMT	ETIM FL HR:MN	LAT LONG	TEMP (C)		1V) RAT 18•	TIO MO/DA/YR	GMT	ETIM HR:MN	FL LAT	LONG TEMP	OZONE(PPM CABIN AM	
4/20/77 2041 4/20/77 2051 4/20/77 2101 4/20/77 2111 4/20/77 2126 4/20/77 2136 4/20/77 2136 4/20/77 2136 4/20/77 2136 4/20/77 2206 4/20/77 2206 4/20/77 2211 4/20/77 2216 4/20/77 2216 4/20/77 2221 4/20/77 2226	0:10 340 0:20 370 0:30 370 0:40 370 0:45 370 0:55 370 1:05 370 1:25 370 1:35 370 1:40 370 1:50 370 1:55 370	35.87N 114.87v 36.58N 113.48v 37.27N 112.04v 37.61N 111.32v 38.28N 109.85v 38.94N 108.34v 39.59N 106.77v 40.23N 105.13v 40.85N 103.47v 41.15N 102.63v 41.45N 101.76v 41.74N 100.89v	-62. -59. -58. -57. -55. -57. -58. -58. -58. -57.	.056 .1 .087 .3 .097 .2 .138 .3 .177 .5 .112 .3 .112 .3 .112 .3 .133 .3 .089 .2	112	4/20/77 29 4/20/77 35 4/20/77 35 4/20/77 30 4/20/77 40 4/20/77 32 4/20/77 76 4/20/77 33 4/20/77 48 4/20/77 49 4/21/77	2246 2256 2306 2311 2316 2321 2326 2336 2336 2356 0006 0011 0021	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	70 42.50N 70 42.72N 70 42.85N 70 42.96N 70 43.00N 70 43.06N 70 43.10N 70 42.92N 70 42.58N 70 42.36N 70 42.36N 70 42.16N 70 42.07N 70 41.80N 66 41.41N	98.17w -57. 96.27w -58. 94.40w -58. 92.50w -58. 91.53w -58. 90.56w -57. 89.58w -57. 88.60w -57. 86.65w -56. 84.75w -57. 82.83w -57. 80.94w -58. 79.99w -58. 76.25w -58.	.104 .1 .035 .0 .042 .0 .031 .0 .024 .0 .037 .0 .023 .0 .042 .0 .048 .0 .069 .1 .057 .0	63 54 25 •55



UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE= .683 CABIN OZONE= .251 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= 1.47 TOTAL OBS IN CABIN: 33 DATA SOURCE: GASP TAPE VL012, FILE 2

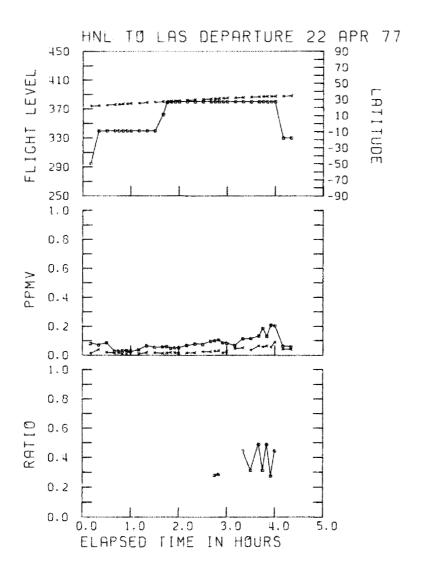
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE (C) CABIN	(PPMV) RATIO AMB•	MO/DA/YR GM	T ETIM HŘ:MN	FL LAT	LONG TEMP	OZONE (PPM CABIN AM	
4/21/77 1/47 4/21/77 1/57 4/21/77 1807 4/21/77 1817 4/21/77 1832 4/21/77 1837 4/21/77 1857 4/21/77 1857 4/21/77 1902 4/21/77 1912 4/21/77 1927 4/21/77 1937 4/21/77 1937 4/21/77 1942 4/21/77 1948	0:14 351 40.10N 0:24 350 40.10N 0:34 351 40.11N 0:44 350 40.11N 0:54 350 40.10N 0:59 351 40.08N 1:04 350 40.06N 1:14 350 40.06N 1:24 387 39.91N 1:29 390 39.67N 1:39 390 39.64N 1:54 390 39.57N 2:04 390 39.32N 2:15 390 39.22N	77.51w +50120 79.19w -51088 80.85w +50023 82.51w -50073 84.11w -50072 84.92w -50141 85.71w -50062 87.28w -50043 88.85w -60043 88.85w -60047 89.58w -61132 91.06w -61076 92.52w -61138 93.25w -61081 94.76w -61064 95.54w -60052 96.41w -59059	.042 .061 .061 .056 .037 .039 .060 .078 .086 .063 .074 .164 .49 .134 .48	4/21/77 195 4/21/77 200 4/21/77 201 4/21/77 202 4/21/77 203 4/21/77 203 4/21/77 204 4/21/77 205 4/21/77 211 4/21/77 212 4/21/77 213 4/21/77 213 4/21/77 214 4/21/77 214 4/21/77 215	8 8 3 8 3 8 3 3 3 3 3 3 3 8 3 8 3 8 3 8	390 39.01N 390 38.77N 390 38.51N 390 38.37N 390 38.22N 390 37.90N 390 37.90N 390 37.39N 390 37.39N 390 37.39N 390 36.65N 390 36.65N 390 35.86N 390 35.86N 390 35.44N	99.59W -55. 101.19W -55. 102.01W -53. 102.84W -52. 103.67W -54. 104.50W -55. 106.93W -60. 108.49W -64. 110.00W -63. 111.48W -63. 112.21W -63. 112.93W -64. 113.65W -65.	121	67 78



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MAXIMUM VALUES: AMBIENT OZONE= .343 CABIN OZONE= .148 RATIO (LIMITEN TO AMB. OZONE ABOVE U.1)= .54 TOTAL OBS IN CABIN: 34 DATA SOURCE: GASP TAPE VL012, FILE 2

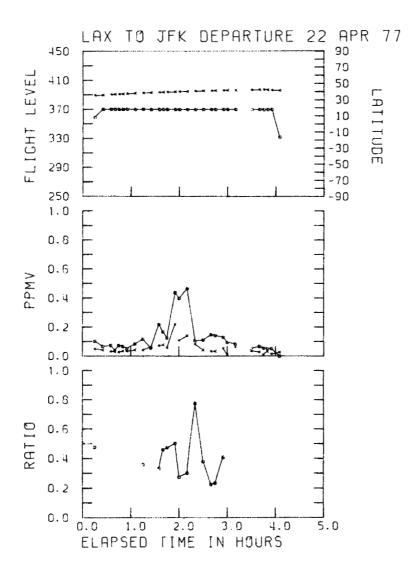
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE	(PPMV) AMB•	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RATIO
4/22/77				34.07N	121:07W		.068			4/22/77				28.52N			-	•094	
4/22/77				33.70N	122.39W		.057		•48	4/22/77	_			28.26N 28.00N	140.60W		-	•082 •082	
4/22/77				33.30N	123.74W		.066		. 1	4/22/77				-				• 002	
4/22/17				32.93N	125.12W		.055			4/22/77				27.47N	142.64W		.104		
4/22/77	0134	0:50	360	32.59N	126.55W	-57•	.041	•158	•26	4/22/77			-	26.92N			.042		
4/22/77	0139	0:55	360	32.41N	127.29W	-57.	.080	•058		4/22/77	0350	3:06	360	26.35N	145.37W	-55.	.033		
4/22/77	0144	1:00	360	32.23N	128.03W	-57.	.069	•064		4/22/77	0400	3:16	360	25.77N	146.72W	-54.	•051		
4/22/77	0149	1:05	360	32.05N	128.73W	-57.	.045	•076		4/22/77	0405	3:21	360	25.47N	147.40W	-54.	.064		
4/22/77	0154	1:10	360	31.86N	129.44W	-58•	.027	•086		4/22/77	0410	41 44		25.16N	148.07W		.050		
4/22/77	0204	1:20	360	31.47N	130.84W	-58•	.044	• 068		4/22/77	0415	3:31	360	24.86N	148.75W	-54.	.040		
4/22/77	0215	1:31	360	31.03N	132.37W	-57.	.044	•119	•37	4/22/77	0420	3:36	360	24.54N	149.42W	-53.	•009		
4/22/77	0225	1:41	360	30.62N	133.72W	-57.	.031	•087		4/22/77	0430	3:46	360	23.92N	150.74W	-54.	.058	.108	.54
4/22/77	0235	1:51	360	30.19N	135.09W	-57.	.044	•048		4/22/77	0440	3:56	360	23.30N	152.02W	-52.	.056	•116	.48
4/22/77	0245	2:01	360	29.73N	136.49W		.135	•061		4/22/77	0450	4:06	360	22.68N	153.26W	-52.	.072	-100	
4/22/77	0255	2:11	360	29.26N	137.85W	-56.	.041	• 079		4/22/77	0500	4:16	360	22.05N	154.48W	-49.	.148	.343	. 43
4/22/77	0300	2:16	360	29.02N	138.54W	-56.	.068	• 085		4/22/77	0505	4:21	360	21.77N	155.08W	-49.	.086	.079	
4/22/7.7	0305	2:21	360	28.77N	139.23W		.037	•094		4/22/77	0510	4:26	345	21.54N	155.67W	-45.	•056	•026	



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MAXIMUM VALUES: AMBIENT OZONE= .208 CABIN OZONE= .090 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .49 TOTAL OBS IN CABIN: 34 DATA SOURCE: GASP TAPE VL012, FILE 2

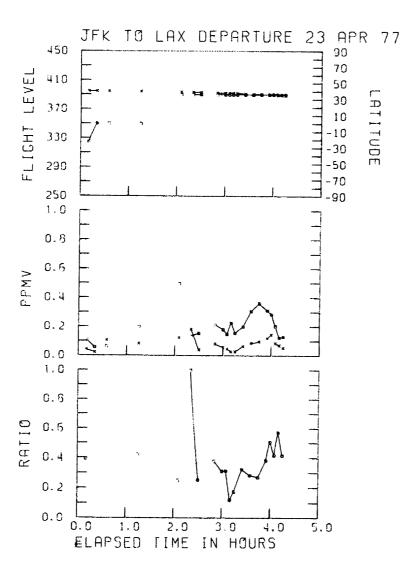
MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(PPMV) RATIO CABIN AMB.	MO/NA/YR GMT	ETÎM FL LAT HŘ:MN	LONG TEMP	OZONE (PPMV) RATI CABIN AMB.	10
4/22/77 0943	0:10 295 21.92N	155.33W -34.	.014 •080	4/22/77 1153	2:20 380 29.60N	137.09w -61.	.015 .077	
4/22/77 0953	0:20 340 22.36N	153.91W -47.	.039 •070	4/22/77 1203	2:30 380 30.13N	135.55w -61.	.024 .074	
4/22/77 1003	0:30 340 23.04N	152.56W -47.	.020 .085	4/22/77 1213	2:40 380 30.64N	133.98W -61.	.023 .095	
4/22/77 1013	0:40 340 23.67N	151.26W -48.	.014 .029	4/22/77 1218	2:45 380 30.90N	133.18W -62.	.028 .100	9
4/22/77 1018	0:45 340 23.99N	150.61W -48.	.017 .028	4/22/77 1223	2:50 380 31.15N	132.35W -62.	.030 .105 .29	
4/22/77 1023	0:50 340 24.30N	149.96W -48.	.011 .032	4/22/77 1228	2:55 380 31.39N	131.56W -62.	.016 .085	
4/22/77 1028	0:55 340 24.61N	149.30W -48.	.011 .033	4/22/77 1233	3:00 380 31.63N	130.74W -61.	.024 .082	
4/22/77 1033	1:00 340 24.92N	148.63W ~48.	.030 .023	4/22/77 1243	3:10 380 32.09N	129.11w -62.	.048 .067	4
4/22/77 1043	1:10 340 25.55N	147.25W ~48.	.012 .038	4/22/77 1253	3:20 380 32.51N	127.52w -62.	.050 .113 .44	
4/22/77 1053	1:20 340 26.16N	145.87W -49.	.018 .065	4/22/77 1303	3:30 380 32.92N	125.92w -63.	.036 .115 .31	1
4/22/77 1103	1:30 340 26.78N	144.43W -49.	.017 .054	4/22/77 1313	3:40 380 33.29N	124.32w -62.	.065 .133 .49	
4/22/77 1113	1:40 363 27.38N	142.99W -55.	.013 .059	4/22/77 1318	3:45 380 33.47N	123.53W -60.	.058 .186 .31	1
4/22/77 1118	1:45 379 27.66N	142.28W -60.	.016 .060	4/22/77 1323	3:50 380 33.65N	122.73W -60.	.064 .131 .49	7
4/22/77 1123	1:50 380 27.95N	141.55W -60.	.018 .048	4/22/77 1328	3:55 380 33.78N	121.92W -61.	.057 .208 .27	
4/22/77 1128	1:55 380 28.23N	140.82W -60.	.017 .052	4/22/77 1333	4:00 380 33.88N	121.11W -61.	.090 .203 .44	+
4/22/77 1133	2:00 380 28.51N	140.09W -61.	.013 .051	4/22/77 1343	4:10 330 34.08N	119.45W -50.	.042 .063	
4/22/77 1143	2:10 380 29.06N	138.60W -61.	.015 .067	4/22/77 1353	4:20 330 34.42N	117.86w -50.	•040 •05B	



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MAXIMUM VALUES: AMBIENT OZONE= .465 CABIN OZONE= .219 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .78 TOTAL OBS IN CABIN: 29
DATA SOURCE: GASP TAPE VL012, FILE 2

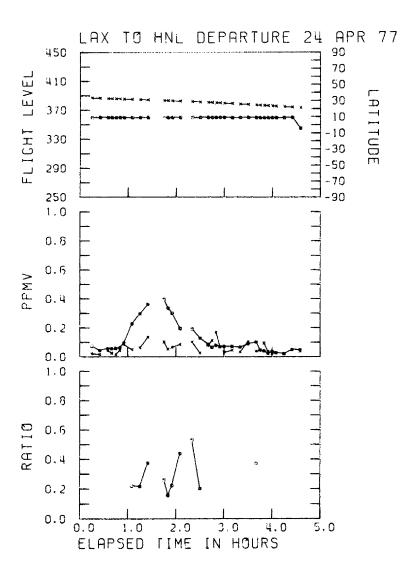
MO/DA/YR GMT	ETIM F	L LAT	LONG TEMP	CABIN OZONE (		RAT10	MOZOAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE ( CABIN	PPMV)	RATIO
4/22/77 2045 4/22/77 2055 4/22/77 2105 4/22/77 2110 4/22/77 2120 4/22/77 2126 4/22/77 2135 4/22/77 2146 4/22/77 2155 4/22/77 2205 4/22/77 2210 4/22/77 2216 4/22/77 2216 4/22/77 2255	0:25 37 0:35 37 0:40 37 0:45 37 0:56 37 1:05 37 1:16 37 1:35 37 1:40 37	59 35.26N 70 35.83N 70 36.66N 70 36.66N 70 37.17N 70 37.42N 70 37.89N 70 38.35N 70 38.77N 70 39.16N 70 39.34N 70 39.52N 70 39.84N	115.73W -57. 114.16W -60. 112.55W -60. 111.73W -60. 110.89W -60. 109.24W -60. 107.61W -60. 105.89W -61. 104.21W -62. 102.57W -61. 101.76W -60. 100.95W -60. 99.33W -57.	.031 .028 .035 .035 .042 .042 .063 .072 .077	.073 .039 .072 .060 .052 .083 .117 .056 .217 .168	•36 •33 •46 •47	4/22/77 4/22/77 4/22/77 4/22/77 4/22/77 4/22/77 4/22/77 4/23/77 4/23/77 4/23/77 4/23/77 4/23/77	2240 2250 2300 2310 2315 2325 2330 2340 0000 0010 0015 0020 0025	2:10 2:30 2:30 2:30 2:45 3:00 3:30 3:40 3:40 3:55 3:50	370 370 370 370 370 370 370 370 370 370	40.00N 40.30N 40.57N 40.83N 41.07N 41.18N 41.43N 41.96N 41.80N 42.20N 42.35N 42.41N 42.15N 41.94N 41.94N	98.51w 96.84w 95.17w 93.44w 91.65w 90.74w 88.88w 87.94w 86.05w 82.17w 80.18w 78.27w 77.34w 75.51w	-55. -57. -59. -58. -58. -58. -57. -57. -56. -56.	.140 .083 .042 .033 .053 .010 .062 .036 .028 .011	.398 .465 .107 .111 .147 .141 .130 .093 .054 .066 .055 .051	.30 .78 .38 .22 .23



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MAXIMUM VALUES: AMBIENT OZONE= .495 CABIN OZONE= .182 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = 1.34 TOTAL OBS IN CABIN: 20 DATA SOURCE: GASP TAPE VL012, FILE 2

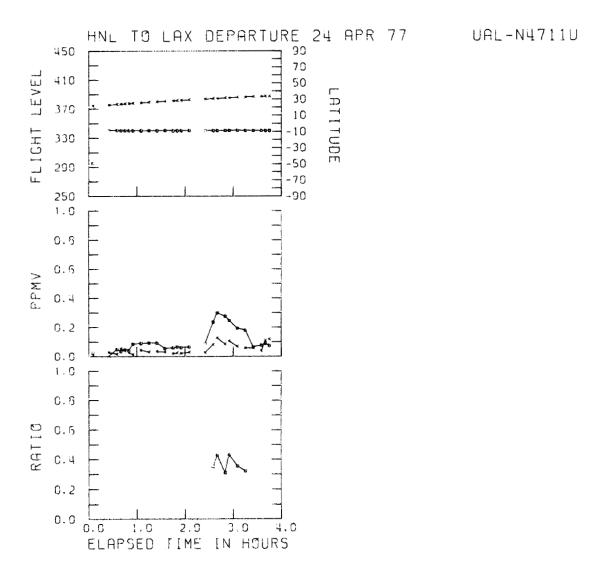
MO/DA/YR	GMT	ETIM HR:MN		LAT	LONG		CARIN OZONE (		RATIO	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE ( CABIN		RAT10
4/23/77	1/37	0:10	325	40.17N	76.41W	-44.	.042	•107	•39	4/23/77			-	37.60N	105.56W		.027	•225	.14
4/23/77	1747	0:20	350	40.13N	77.96W	-51.	.023	•057		4/23/77	2042	3:15	390	37.44N	106.30W	-62.	.027	•155	•17
4/23/77	1802	0:35	350	40.03N	80.32W	-53.	.106	•063		4/23/77	2052	3:25	390	37.10N	107.78W	-62.	.065	.201	.32
4/23/77	1842	1:15	350	39.87N	86.70W	-55.	.084	.200	•42	4/23/77	2102	3:35	390	36.75N	109.24W	-60.	.087	•307	.28
4/23/77	1932	2:05	390	39.33N	95.30W	-58.	.124	•495	•25	4/23/77	2112	3:45	390	36.39N	110.68W	-59.	.097	.360	.27
4/23/77	1947	2:20	390	38.97N	97.80W	-64.	.182	•136	1.34	4/23/77	2122	3:55	390	35.95N	112.11W	-57.	.120	•312	.38
4/23/77	1957	2:30	390	38.77N	99.43W	-65.	.039	•154	•25	4/23/77	2127	4:00	390	35.70N	112.83W	-56.	.145	•286	.51
4/23/77	2017	2:50	390	38.21N	102.51W	-63.	.081	+213	-38	4/23/77	2132	4:05	390	35.44N	113.56W	-56.	.085	-204	.42
4/23/77	2027	3:00	390	37.91N	104.04W	-64.	.056	•180	•31	4/23/77	2137	4:10	390	35.19N	114.26W	-55.	.071	.124	.57
4/23/77	2032	3:05	390	37.76N	104.80W			•147	•31	4/23/77	2142	4:15	390	34.93N	114.97W	-57.	.054	•130	.42



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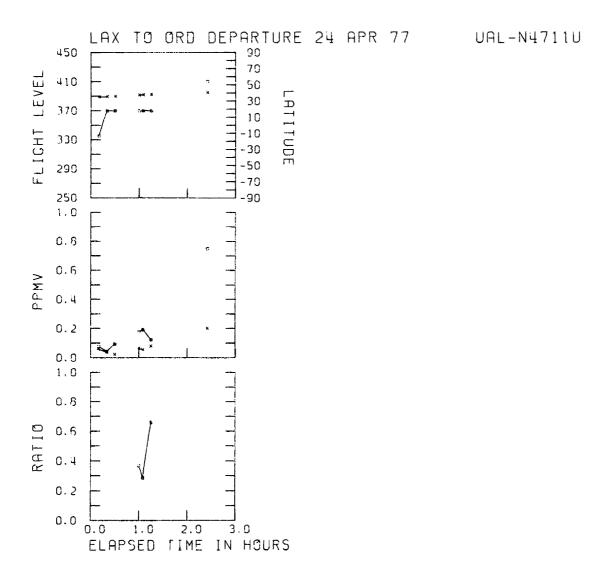
MAXIMUM VALUES: AMBIENT OZONE= .396 CABIN OZONE= .169 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .53 TOTAL OBS IN CABIN: 32 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE CABIN		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE( CABIN	PPMV) AMB.	RATIO
4/24/17 4/24/17 4/24/17 4/24/17 4/24/17 4/24/17 4/24/17 4/24/17 4/24/17 4/24/17 4/24/17 4/24/17	0111 0121 0126 0131 0136 0141 0201 0231 0236 0241 0251 0302	0:29 0:39 0:44 0:49 0:54 0:59 1:09 1:19 1:29 1:54 1:59 2:09 2:20	360 360 360 360 360 360 360 360 360 360	33.38N 33.14N 32.83N 32.67N 32.50N 32.33N 32.15N 31.79N 31.43N 31.04N 30.22N 30.01N 29.79N 29.35N 28.88N 28.41N	122.67W 124.13W 125.55W 126.25W 126.25W 127.63W 128.32W 129.68W 131.01W 135.06W 135.06W 135.06W 136.30W 137.60W 138.92W 140.19W	-57. -57. -58. -58. -57. -55. -54. -52. -53. -53. -54.	.022 .017 .043 .025 .017 .044 .086 .050 .064 .136 .103 .067 .086	.044 .058 .057 .059 .065 .096 .228 .297 .363 .396 .337 .301 .196	•16 •22 •44	4/24/TT 4/24/TT	0327 0332 0337 0342 0352 0402 0412 0427 0437 0437 0447 0457 0507	20000000000000000000000000000000000000	360 360 360 360 360 360 360 360 360 360	27.92N 27.67N 27.40N 27.13N 26.85N 26.30N 25.74N 25.16N 24.29N 24.01N 24.29N 24.01N 23.43N 23.14N 22.55N 21.95N	141.49W 142.82W 143.49W 144.16W 145.48W 146.79W 148.08W 149.35W 149.96W 150.56W 151.75W 152.34W 153.53W 154.71W 155.87W	-55. -54. -54. -54. -52. -51. -50. -50. -50. -50. -50. -50.	.078 .112 .169 .069 .033 .045 .034 .104 .038 .043 .095 .025 .027 .022	.086 .086 .081 .071 .072 .067 .091 .102 .048 .041 .025 .036 .028 .021	.37



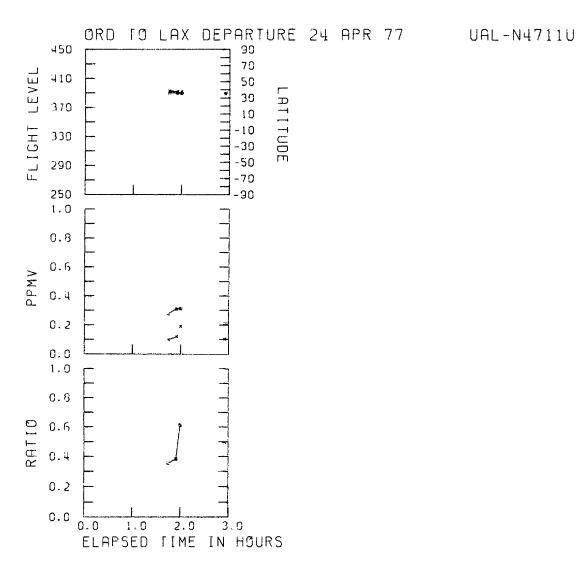
MAXIMUM VALUES: AMBIENT OZONE= .298 CABIN OZONE≈ .127 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .43 TOTAL OBS IN CABIN: 26 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR (	GMT	ETIM HR:MN	FL	LAT			OZONE (		RAT10	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN OZONE (		RATIO
4/24/77 09 4/24/77 10		•		22.00N 23.18N	155.06W 152.27W			.023		4/24/77 4/24/77			-	28.78N 29.34N	137.20W 137.63W		.022 .029	•061 •066	
4/24/77 10 4/24/77 10				23.86N 24.19N	150.87W 150.17W	,	.017	•049 •035		4/24/77 4/24/77		T .		30.39N 30.91N	134.45W		.028 .083	•088 •236	.35
4/24/77 10				24.53N 24.85N	149.46W 148.76W	,	.041	•047 •041		4/24/77				31.16N 31.64N	131.95W 130.24W		•127 •085	•298 •276	• .
4/24/77 10 4/24/77 10		0:55	340	25.17N 25.81N	148.06W 146.63W	-46.	.013	•086 •091		4/24/77				31.88N 32.32N	129.38W 127.67W	-51.	.106	•247 •194	.43
4/24/77 10 4/24/77 11				26.43N 27.04N	145.18W 143.72W	,	.031	•094 •093		4/24/77				32.73N 33.11N	125.99W 124.31W	_		•180 •064	.32
4/24/77 11		-		27.63N 28.22N	142.23W 140.72W	,	.031	•055 •060		4/24/77				33.47N 33.58N	122.65w 121.81w			•077 •089	
4/24/77 1	129	1:50	340	28.50N	139.97W	-48.	.025	• 0 6 5		4/24/77	1324	3:45	340	33.67N	120.97W	-52.	.118	.074	



MAXIMUM VALUES: AMBIENT OZONE= .750 CABIN OZONE= .202 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .66 TOTAL OBS IN CABIN: 7 DATA SOURCE: GASP TAPE VL012, FILE 2

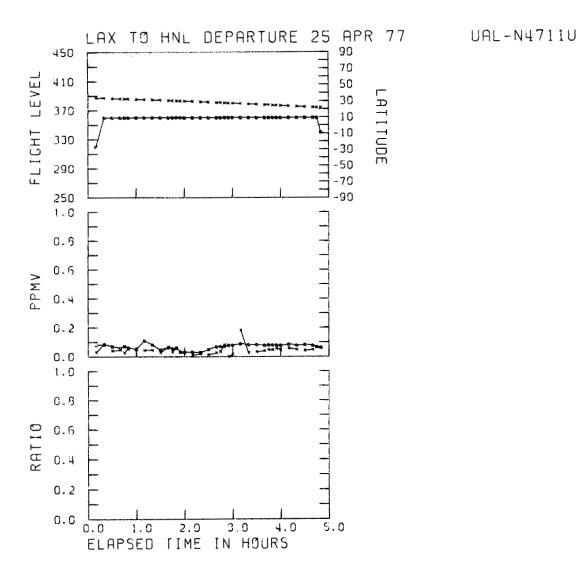
MO/DA/YR GM	ETIM FL LAT	LONG TEMP OZONE(PPMV) RATIO	MO/DA/YR GMT ETIM FL LAT	LONG TEMP OZONE(PPMV) RATI
	HR:MN	(C) CABIN AMB.	HR:MN	(C) CABIN AMB.
4/24/77 1556 4/24/77 1606 4/24/77 1616	0:20 370 35.59N	116.46W -51059 .076 114.91W -59038 .043 113.35W -57024 .094	4/24/77 1640 1:00 370 37.59N 4/24/77 1645 1:05 370 37.81N 4/24/77 1655 1:15 370 38.25N 4/24/77 1805 2:25 410 40.61N	106.06w -60081 .123 .66



MAXIMUM VALUES: AMBIENT OZONE= .313 CABIN OZONE= .191 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .61 TOTAL OBS IN CABIN: 4
DATA SOURCE: GASP TAPE VL012, FILE 2

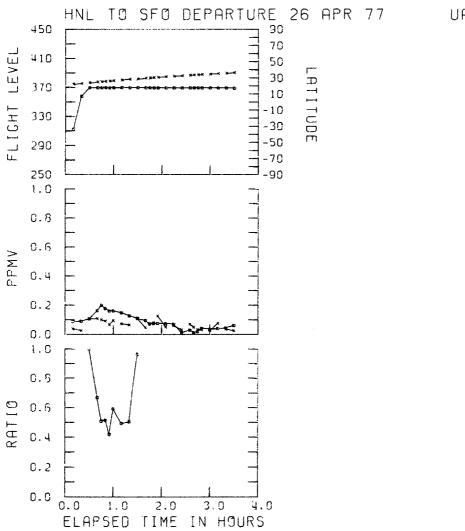
MO/DA/YR GMT ETIM FL LAT	LONG TEMP OZONE(PPMV) RATIO	MO/DA/YR GMT LTIM FL LAT	LONG TEMP OZONE (PPMV) RATIO
HR: MN	(C) CABIN AMB.	HŘ:MN	(C) CABIN AMB.

4/24/77 2259 1:45 390 38.44N 105.29W -60. .098 .276 .36 4/24/77 2314 2:00 390 37.77N 107.49W -58. .191 .313 .61 4/24/77 2309 1:55 390 38.00N 106.76W -59. .119 .311 .38 4/25/77 0010 2:56 390 34.96N 115.21W -57. .103 .211 .49



MAXIMUM VALUES: AMBIENT OZONE= .110 CABIN OZONE= .182 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .41 TOTAL OBS IN CABIN: 36 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL HR:MN	LAT LONG	TEMP	OZONE (		RATIO	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
4/25/77 1712 4/25/77 1722 4/25/77 1732 4/25/77 1747 4/25/77 1747 4/25/77 1802 4/25/77 1812 4/25/77 1832 4/25/77 1832 4/25/77 1842 4/25/77 1847 4/25/77 1852 4/25/77 1902 4/25/77 1902 4/25/77 1912 4/25/77 1922 4/25/77 1932	0:10 320 0:20 360 0:30 360 0:40 360 0:45 360 0:50 360 1:00 360 1:10 360 1:20 360 1:40 360 1:45 360 1:55 360 2:00 360 2:10 360 2:20 360 2:30 360	33.39N 122.99 33.08N 124.43 32.77N 125.84 32.60N 126.53 32.43N 127.22 32.08N 128.59 31.72N 129.94 31.34N 131.29 30.94N 132.62 30.54N 133.95 30.33N 134.60 30.12N 135.26 29.91N 135.26 29.91N 135.26 29.91N 135.26 29.91N 135.26	-55 -55 -55 -55 -55 -56 -5	.088 .042 .047 .027 .054 .045 .029 .067 .033 .062 .032 .029	.081 .083 .070 .059 .072 .062 .050 .110 .082 .047 .066 .060 .032 .031 .032 .028	•41	4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77 4/25/77	1947 1952 1957 2002 2012 2022 2032 2042 2047 2052 2057 2102 2112 2122 2132 2142 2147	9 9 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	360 360 360 360 360 360 360 360 360 360	27.87N 27.40N 27.40N 27.16N 26.93N 26.45N 25.97N 25.48N 24.73N 24.48N 24.22N 23.97N 23.44N 22.90N 22.36N 21.54N 21.54N 21.55N	141.58 W 142.77 W 143.35 W 143.93 W 145.08 W 146.20 W 147.32 W 148.97 W 148.97 W 150.57 W 151.67 W 152.75 W 153.83 W 155.99 W 155.99 W	-494949484747474747474747	.000 .015 .182 .026 .033 .040	.06H .06H .072 .078 .079 .088 .081 .082 .077 .080 .079 .078 .077 .084 .077	

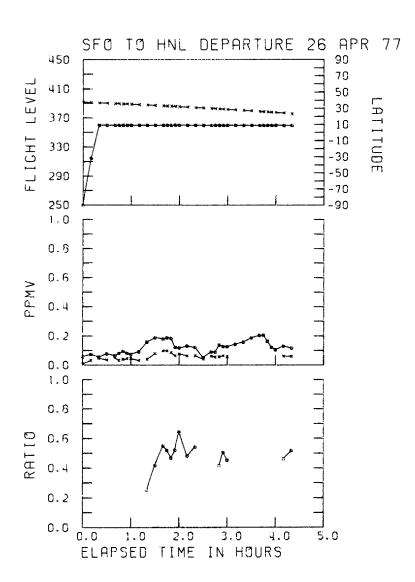


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HNL TO SEU (PAGE 1 OF 1) DEPARTURE: 26 APR 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE= .199 CABIN OZONE= .126 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.01 TOTAL OBS IN CABIN: 26 DATA SOURCE: GASP TAPE VL012, FILE 2

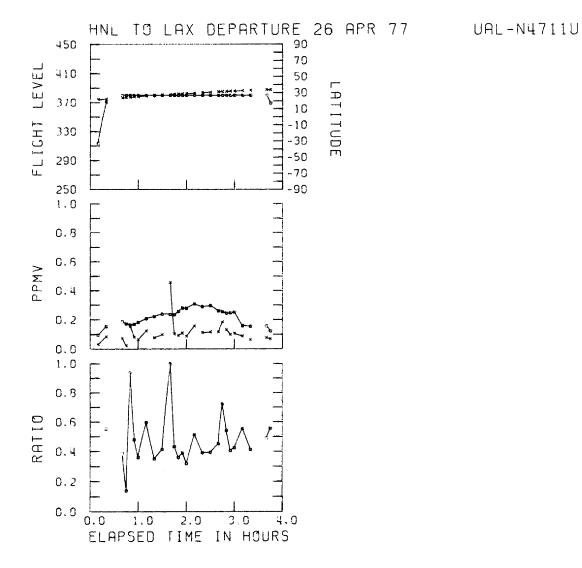
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	CARIN OZONE		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RATIO
4/26/77				22.22N	155.68W		.038			4/26/77				30.22N	140.90W			, .	
4/26/77	-			23.13N	154.44W		.027			4/26/77				30.56N	140.11W		•126	• 075	
4/26/77				24.00N	153.00W		.108		-	4/26/77		-			138.56W			•074	
4/26/77	0044	0:40	370	24.86N	151.53W	<b>-50</b> •	.108	•162	•67	4/26/77	0219	2:15	369	31.98N	137.01W	-56.	.061	•070	
4/26/77	0049	0:45	370	25.29N	150.78W	-50•	.101	•199	•51	4/26/77	0229	2:25	369	32.60N	135.42W	-57.	.032	•012	
4/26/77	0054	0:50	370	25.71N	150.03W	-51.	.091	•177	•51	4/26/77					133.79W	-56.	.070	•031	
4/26/77	0059	0:55	370	26.11N	149.30W	-50.	.067	•160	•42	4/26/77	0244	2:40	370	33.52N	132.96W	-56.	.050	•013	
4/26/77	0104	1:00	370	26.51N	148.56W	-51.	.095	•161	•59	4/26/77	0249	2:45	370	33.82N	132.12W	-56.	.033	.020	
4/26/77	0114	1:10	370	27.30N	147.04W	-53•	.073	•148	•49	4/26/77	0254	2:50	370	34.12N	131.26W	-56.	.032	•043	
4/26/77	0125	1:21	370	28.07N	145.52W	-52•	.064	•127	•50	4/26/77	0304	3:00	369	34.69N	129.54W	-57.	.027	•036	
4/26/77	0134	1:30	370	28.80N	143.98W	<del>-5</del> 3•	.107	•111	•96	4/26/77	0314	3:10	369	35.22N	127.82W	-57.	.076	•041	
4/26/77	0144	1:40	370	29.51N	142.43W	-55.	.046	• 095		4/26/77	0324	3:20	370	35.72N	126.14W	-57.	.036	• 045	
4/26/77	0149	1:45	370	29.87N	141.67W	-55•	.073	•072		4/26/77	0334	3:30	369	36.40N	124.53W	-57.	.026	•062	



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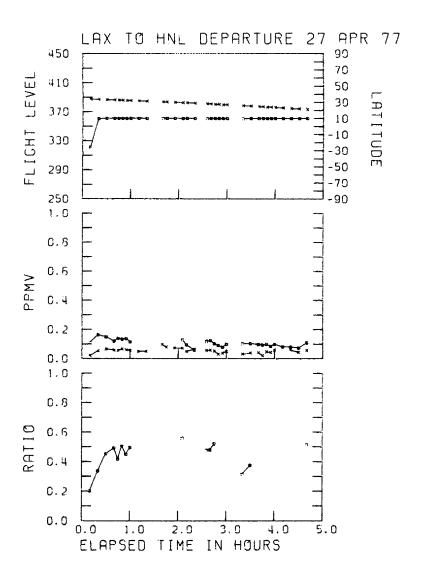
MAXIMUM VALUES: AMBIENT OZONE= .205 CABIN OZONE= .098 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .64 TOTAL OBS IN CABIN: 27 DATA SOURCE: GASP TAPE VL012, FILE 2

4/26/77 1634 0:00 216 37.37N 123.72W -21010 .057 4/26/77 1844 2:10 360 31.43N 140.73W -56063 .1 4/26/77 1644 0:10 314 36.98N 125.05W -43033 .073 4/26/77 1854 2:20 360 30.89N 141.92W -56065 .1 4/26/77 1654 0:20 360 36.60N 126.42W -55047 .055 4/26/77 1904 2:30 360 30.34N 143.10W -56041 .0 4/26/77 1704 0:30 360 36.20N 127.81W -55035 .078 4/26/77 1914 2:40 360 29.77N 144.28W -56060 .0 4/26/77 1714 0:40 360 35.78N 129.19W -56051 .064 4/26/77 1919 2:45 360 29.48N 144.88W -56054 .0 4/26/77 1719 0:45 360 35.56N 129.88W -56032 .081 4/26/77 1924 2:50 360 29.19N 145.47W -55057 .1 4/26/77 1724 0:50 360 35.34N 130.56W -56040 .095 4/26/77 1929 2:55 360 28.89N 146.06W -55064 .1 4/26/77 1734 1:00 360 34.89N 131.24W -56045 .082 4/26/77 1934 3:00 360 28.59N 146.64W -55057 .1 4/26/77 1744 1:10 360 34.43N 133.22W -57032 .092 4/26/77 1954 3:20 360 27.33N 149.01W -551 4/26/77 1754 1:20 360 33.97N 134.50W -55040 .158 .25 4/26/77 2014 3:40 360 26.01N 151.37W -532	MO/DA/YR GM
4/26/77 1814 1:40 360 32.98N 137.05W -55098 .179 .55 4/26/77 2019 3:45 360 25.67N 151.95W -532 4/26/77 1819 1:45 360 32.73N 137.67W -55097 .187 .52 4/26/77 2024 3:50 360 25.33N 152.53W -531 4/26/77 1824 1:50 360 32.47N 138.30W -55086 .184 .47 4/26/77 2029 3:55 360 24.99N 153.10W -521 4/26/77 1829 1:55 360 32.21N 138.92W -57063 .121 .52 4/26/77 2034 4:00 360 24.65N 153.67W -521 4/26/77 1834 2:00 360 31.95N 139.53W -57076 .118 .64 4/26/77 2054 4:20 360 23.06N 155.68W -51060 .1	4/26/77 164 4/26/77 170 4/26/77 171 4/26/77 171 4/26/77 172 4/26/77 173 4/26/77 174 4/26/77 175 4/26/77 180 4/26/77 181 4/26/77 181 4/26/77 181 4/26/77 182



MAXIMUM VALUES: AMBIENT OZONE= .308 CABIN OZONE= .458 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.93 TOTAL OBS IN CABIN: 27 DATA SOURCE: GASP TAPE VL012, FILE 2

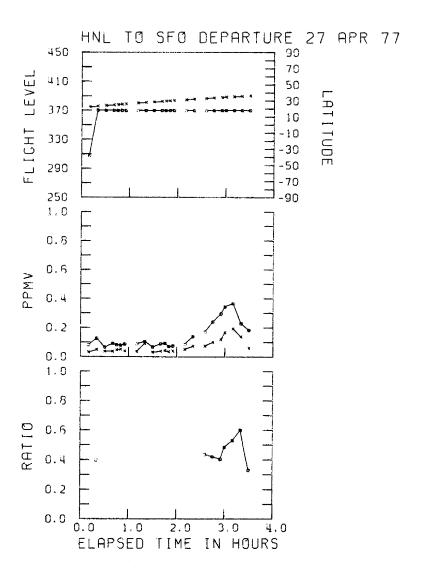
MO/DA/YR GMT	ETIM FL LA HR:MN		OZONE (PPMV) CABIN AMB.		MO/DA/YR	GMT	ETIM FL HŘÍMN	LAT	LONG TE	P CABIN		RATIO
4/26/77 2309 4/26/77 2319 4/26/77 2344 4/26/77 2349 4/26/77 2354 4/26/77 2359 4/27/77 0009 4/27/77 0019 4/27/77 0029 4/27/77 0039 4/27/77 0044 4/27/77 0049	0:10 314 21 0:20 371 22 0:40 380 23 0:45 380 24 0:50 380 24 0:55 380 24 1:00 380 25 1:10 380 25 1:20 380 26 1:30 380 27 1:40 380 28 1:50 380 28	.33N 153.81W -5288N 150.82W -5524N 150.07W -5560N 149.31W -6595N 148.54W -5530N 147.77W -5599N 146.20W -5567N 144.61W -5433N 143.00W -5497N 141.37W -5429N 140.54W -54.	.085 .154 .073 .187 .024 .173 .155 .165 .081 .169 .066 .183 .124 .208 .078 .222 .099 .239 .458 .237 .101 .234	.55 .39 .14 .94 .48 .36 .60	4/27/77 0 4/27/77 0 4/27/77 0 4/27/77 0 4/27/77 0 4/27/77 0 4/27/77 0 4/27/77 0 4/27/77 0 4/27/77 0 4/27/77 0	0059 0109 0119 0129 0139 0144 0149 0154 0159 0209 0219	1:55 380 2:00 380 2:10 380 2:20 380 2:30 380 2:40 380 2:45 380 2:50 380 2:55 380 3:10 380 3:10 380 3:45 369	29.20N 29.77N 30.32N 30.84N 31.32N 31.55N 31.75N 32.00N 32.02N 33.62N	138.03W -5	3089 .158 3113 .117 .118 .185 4133 .100 .107 4088 4064 .077	.308 .285 .297 .261 .256 .245 .247 .252 .159 .155	.32 .51 .39 .45 .72 .54 .40 .45 .41



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MAXIMUM VALUES: AMBIENT OZONE= .164 CABIN OZONE= .097 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .56 TOTAL OBS IN CABIN: 32 DATA SOURCE: GASP TAPE VL012, FILE 2

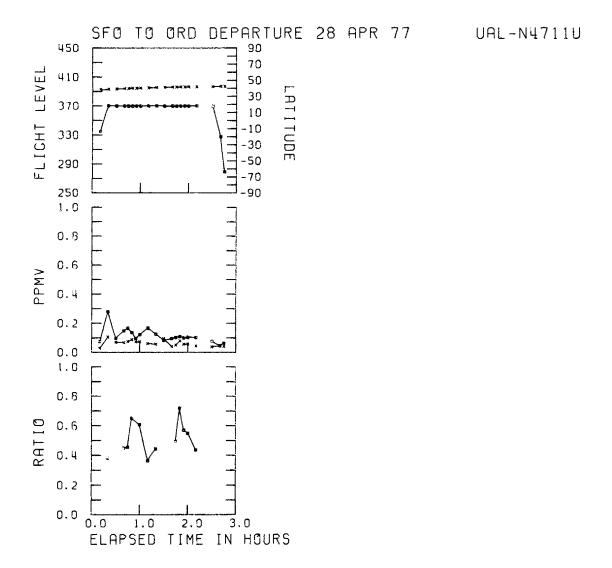
	241 20 075			
4/27/77 1726 0:20 360 33.35N 123.21W -55055 .164 .34 4/27/77 1946 2:40 4/27/77 1736 0:30 361 33.04N 124.65W -54068 .150 .45 4/27/77 1951 2:45 4/27/77 1746 0:40 361 32.71N 126.08W -54059 .120 .49 4/27/77 1956 2:50 4/27/77 1751 0:45 361 32.54N 126.79W -54058 .139 .42 4/27/77 2001 2:55 4/27/77 1756 0:50 361 32.37N 127.49W -54067 .133 .50 4/27/77 2006 3:00 4/27/77 1801 0:55 361 32.19N 128.19W -54067 .133 .50 4/27/77 2026 3:20 4/27/77 1806 1:00 361 32.01N 128.89W -55057 .115 .50 4/27/77 2036 3:30 4/27/77 1816 1:10 361 31.64N 130.25W -56051 4/27/77 2046 3:40 4/27/77 1826 1:20 361 31.26N 131.57W -55051 4/27/77 2056 3:50 4/27/77 1846 1:40 361 30.47N 134.18W -57097 4/27/77 2056 3:50 4/27/77 1851 1:45 361 30.27N 134.82W -56080 4/27/77 2101 3:55 4/27/77 1911 2:05 361 29.86N 136.10W -56074 4/27/77 1911 2:05 361 29.44N 137.35W -57072 .129 .56 4/27/77 216 4:20 4/27/77 1916 2:10 361 29.22N 137.97W -58049 .095 4/27/77 2126 4:20 4/27/77 1926 2:20 361 28.78N 139.22W -58065 .059	361 27.83N 361 27.58N 361 27.58N 361 27.08N 361 26.83N 361 25.81N 361 25.81N 361 24.75N 361 24.47N 361 24.19N 361 23.63N 361 23.63N 361 23.05N 361 21.88N 361 21.88N	142.98W -55 143.59W -56 144.21W -55 140.62W -55 147.81W -54 149.00W -54 149.59W -54 150.78W -53 150.78W -53 151.36W -53 152.53W -53	.059 .123 .053 .102 .031 .091 .039 .079 .049 .099 .032 .102 .039 .104 .042 .097 .021 .094 .048 .099 .042 .085 .060 .099 .081	.31



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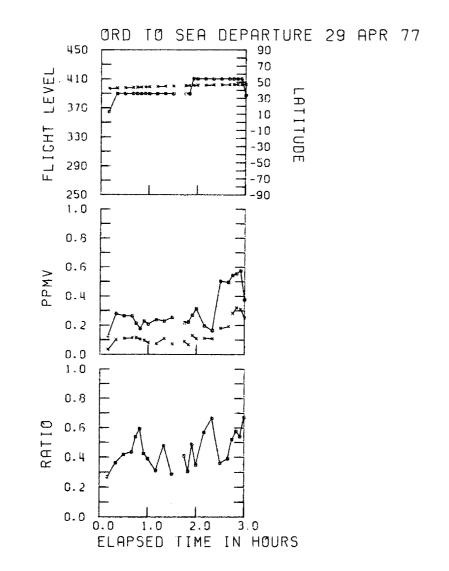
MAXIMUM VALUES: AMBIENT OZONE= .365 CABIN OZONE= .193 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .88 TOTAL OBS IN CABIN: 23 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM HR:MN	FL	LAT	LONG		OZONE CABIN	(PPMV) AMB•	RATIO	MOZDAZYR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	PPMV) AMB.	RATIO
4/28/77 0008 4/28/77 0017 4/28/77 0028 4/28/77 0037 4/28/77 0043 4/28/77 0053 4/28/77 0108 4/28/77 0128 4/28/77 0128	0:20 3 0:31 3 0:40 3 0:46 3 0:56 3 0:56 3 1:11 3 1:20 3	170 170 170 170 170 170 170 170		155.71W 154.40W 153.05W 151.69W 151.00W 150.30W 149.61W 147.49W 146.06W 144.59W 143.09W	-57. -57. -57. -57. -57. -58. -58.		•092 •082 •080 •087 •088 •104 •068		4/28/77 4/28/77 4/28/77 4/26/77 4/26/77 4/28/77 4/28/77 4/28/77 4/28/77 4/28/77 4/28/77	0148 0153 0208 0217 0233 0243 0253 0301 0311 0321	1,56 2:11 2:20 2:36 2:46 3:04 3:14 3:24	370 370 370 370 370 370 370 370 370	29.98N 30.33N 31.37N 32.05N 33.04N 33.65N 34.24N 34.24N 35.21N 35.72N	142.33w 141.56w 140.77w 138.35w 136.68w 134.11w 132.40w 130.68w 129.25w 125.88w 124.29w	-59. -59. -59. -59. -59. -58. -57. -56.	.043 .034 .039 .051 .074 .075 .101 .119 .166 .193 .137	.093 .071 .075 .087 .139 .172 .240 .240 .343 .365 .228	.44 .42 .40 .48 .53



MAXIMUM VALUES: AMBIENT OZONE= .278 CABIN OZONE= .106 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .72 TOTAL OBS IN CABIN: 20 DATA SOURCE: GASP TAPE VL012, FILE 2

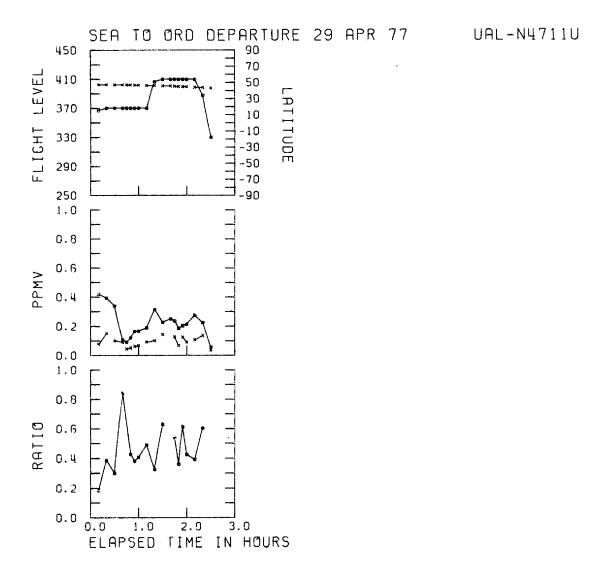
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN OZONE		RATIO	MOZDAZYR	GMT	HK:WN FIIM	FL	LAT	LONG	TEMP	OZONE (	PPMV)	RATIO
4/28/77	- ,			38.40N	119.36W					4/28/77			-		105.12W			.083	
4/28/77	1801	0:20	370	38.86N	117.62W	<b>-58</b> •	.106	•278	•38	4/28/77	1921	1:40	370	41.50N	103.23W	-60.	.040	• 096	
4/28/77	1811	0:30	370	39.29N	115.87W	-58.	.070	•097		4/28/77	1926	1:45	370	41.60N	102.28W	-59.	.051	.103	.50
4/28/77	1821	0:40	370	39.69N	114.13W	-56.	.067	•149	•45	4/28/77	1931	1:50	370	41.70N	101.32W	-59.	.079	•110	.72
4/28/77	1826	0:45	370	39.87N	113.25W	-55•	.076	•167	• 46	4/28/77	1936	1:55	370	41.79N	100.35W	-59.	.057	-100	
4/28/77	1831	0:50	370	40.05N	112.38W	-56.	.089	•137	•65	4/28/77	1941	2:00	370	41.88N	99.39W	-60.	.057	·104	.55
4/28/77	1836	0:55	370	40.22N	111.51W	-57.	.073	•096		4/28/77	1951	2:10	370	42.01N	97.45W	-59.	.045	.103	.44
4/28/77	1841	1:00	370	40.39N	110.62W	-57.	.074	•122	•61	4/28/77	2011	2:30	370	42.20N	93.50W	-60.	.039	.078	• .
4/28/77	1851	1:10	370	40.71N	108.83W	-58.	.061	•168	• 36	4/28/77	2021	2:40	328	42.40N	91.54W	-50.	.045	.046	
4/28/77	1901	1:20	37,0	41.00N	106.99W	-59•	.056	•126	• 44	4/28/77	2026	2:45	279	42.34N	90.50W		.041	•064	



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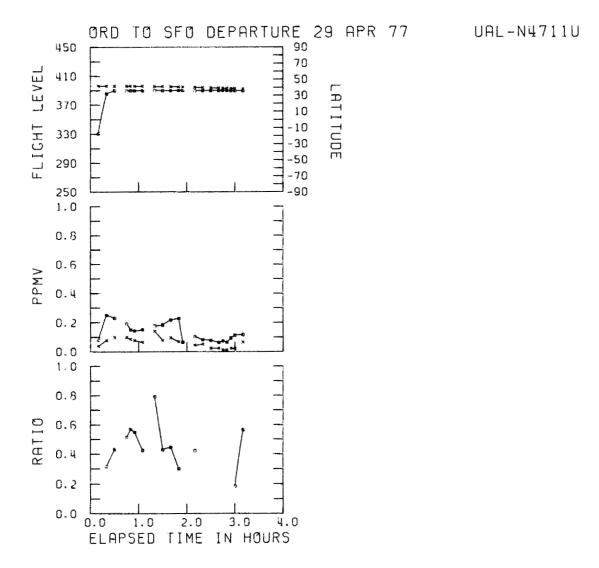
MAXIMUM VALUES: AMBIENT OZONE= .575 CABIN OZONE= .320 RATIO (LIMITED \*\*O AMB. OZONE ABOVE 0.1)= .67 TOTAL OBS IN CABIN: 23 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM HR:MN	FL	LAT	LONG		CARIN OZONE (		RATIO	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	 RATIO
4/29/77 0012 4/29/77 0022 4/29/77 0032 4/29/77 0042 4/29/77 0052 4/29/77 0053 4/29/77 0102 4/29/77 0112 4/29/77 0132 4/29/77 0132	0:20 0:30 0:40 0:45 0:50 0:55 1:00 1:10	390 390 390 390 390 390 390 390	42.17N 42.63N 43.07N 43.49N 43.70N 43.90N 44.10N 44.30N 44.67N 45.03N 45.37N	90.65W 92.01W 93.45W 94.90W 95.66W 96.40W 97.17W 97.94W 99.50W 101.10W 102.73W	-58. -58. -58. -60. -61. -59. -59.	.101 .110 .114 .115 .105 .097 .081 .074	•177 •229 •208 •238 •229	.36 .42 .43 .54 .59 .42 .39 .31	4/29/77 4/29/77 4/29/77 4/29/77 4/29/77 4/29/77 4/29/77 4/29/77 4/29/77 4/29/77	0152 0157 0202 0212 0222 0232 0242 0247 0252 0257	1:50 1:55 2:00 2:20 2:30 2:30 2:40 2:55	390 411 410 410 410 410 410 410	45.97N 46.11N 46.25N 46.49N 46.71N 46.91N 47.08N 47.14N 47.18N 47.21N	105.21 W 106.06 W 106.91 W 107.80 W 111.33 W 113.16 W 115.03 W 115.92 W 116.92 W 117.88 W 118.83 W	-59. -52. -51. -54. -52. -51. -53. -51.	.089 .068 .131 .109 .112 .109 .181 .193 .283 .320 .310	 .30 .49 .35 .57 .66 .39 .52 .58



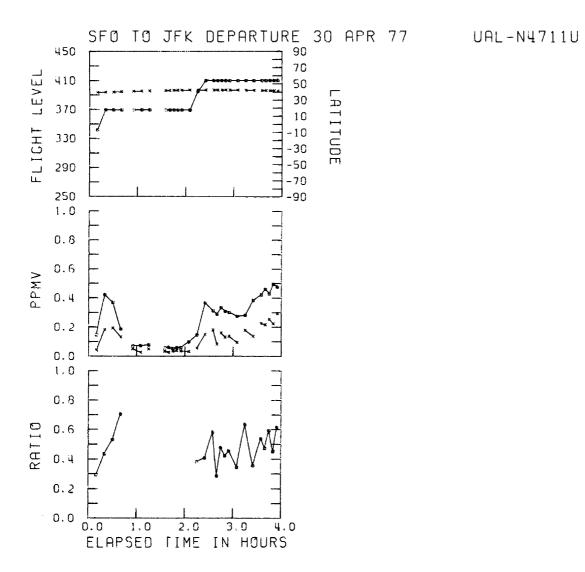
MAXIMUM VALUES: AMBIENT OZONE= .419 CABIN OZONE= .151 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .84 TOTAL OBS IN CABIN: 18 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CARIN OZONE(			MO/DA YR	GMT	ETIM FI HŘ:MN	LAT	LONG	TEMP	OZONE( CABIN		RAT10
4/29/77	1527	0:10	367	47.38N	119.07W	<b>-</b> 59•	.077	•419	•18	4/29/77	1637	1:20 40	7 46.16N	104.57W	-56.	.102	.314	.32
4/29/17	1537	0:20	370	47.38N	116.98W	-60.	.151	• 392	•39	4/29/77	1647	1:30 41	0 45.83N	102.55W	-55.	.143	•227	.63
4/29/77	1547	0:30	370	47.26N	114.88W	-61.	.101	• 338	•30	4/29/77	1657	1:40 41	0 45.45N	100.55W	-53.		•251	
4/29/77	1557	0:40	370	47.11N	112.75W	-62.	.090	•107	•84	4/29/77	1702	1:45 41	0 45.25N	99.56W	-54.	.127	•237	.54
4/29/77	1602	0:45	370	47.02N	111.69W	-63.	.045	.091		4/29/77	1707	1:50 41	0 45.05N	98.58W	-54.	.067	•186	.36
4/29/77	1607	0:50	370	46.92N	110.64W	-62.	.052	•122	•43	4/29/77	1712	1:55 41	0 44.83N	97.61W	-54.	.125	.204	.61
4/29/77	1612	0:55	370	46.81N	109.59W	-61.	.063	•165	•38	4/29/77	1717	2:00 41	0 44.61N	96.64W	-54.	.091	-214	.43
4/29/77	1617	1:00	370	46.70N	108.57W	-61.	.068	•167	•41	4/29/77	1727	2:10 41	0 44.14N	94.73W	-54.	.108	•275	.39
4/29/77	1627	1:10	370	46.44N	106.55W	<b>-</b> 59•	.093	•190	• 49	4/29/77 4/29/77			B 43.63N 0 43.06N	92.83W 90.84W		-	•225 •056	.60



MAXIMUM VALUES: AMBIENT OZUNE= .250 CABIN OZONE= .141 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .79 TOTAL OBS IN CABIN: 21 DATA SOURCE: GASP TAPE VL012, FILE 2

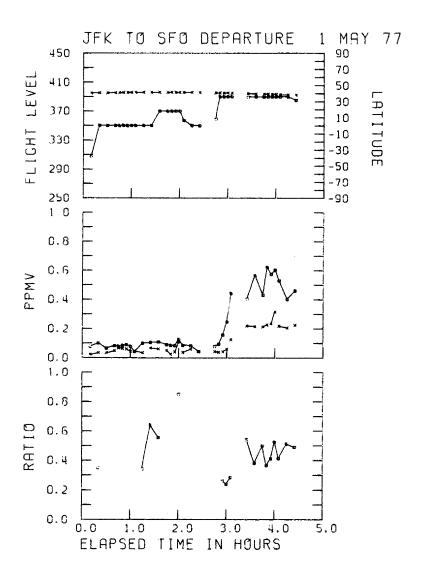
	TIM FI	L LAT	_ • • • • •		CARIN	(PPMV) • BMB	RATIO	MOZNAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (		RATIO
4/29/77 2151 02 4/29/77 2201 02 4/29/77 2216 02 4/29/77 2221 02 4/29/77 2226 02 4/29/77 2236 12 4/29/77 2251 12 4/29/77 2301 1	:20 385 :30 396 :45 396 :50 396 :55 396 :05 396 :20 396 :30 396	1 41.81N 5 41.80N 0 41.76N 0 41.66N 0 41.62N 0 41.57N 0 41.45N 0 41.26N 0 41.08N 0 40.87N	92.31W - 93.90W - 96.34W - 97.13W - 97.97W - 99.57W - 102.03W - 103.67W -	-56. -57. -57. -57. -58. -59.	.086 .079 .065	•250 •230 •193 •151 •144 •153 •178 •184	.32 .43 .51 .57 .55 .42 .79	4/29/77 4/29/77 4/29/77 4/29/77 4/30/77 4/30/77 4/30/77 4/30/77	2325 2341 2351 0001 0011 0016 0021 0026	1:55 2:10 2:20 2:30 2:40 2:45 2:50 2:55	390 390 390 390 390 390 390	40.52N 40.12N 39.83N 39.53N 39.21N 39.04N 38.87N 38.69N	106.97W 107.76W 110.15W 111.73W 113.25W 114.73W 115.48W 116.48W 116.94W 116.94W	-63. -64. -64. -64. -65. -64.	.065 .044 .051 .024 .023 .013 .012	.229 .065 .104 .082 .078 .063 .074 .065	• 4 č



SFO TO JFK (PAGE 1 OF 1) DEPARTURE: 30 APR 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE= .496 CABIN OZONE= .293 RATIO (LÍMITED TO AMB. OZONE ABOVE 0.1)= .71 TOTAL OBS IN CABIN: 28 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FĻ	LAT			CABIN OZONE	(PPMV) AMB•	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE (F		RATIO
4/30/77 4/30/77 4/30/77 4/30/77 4/30/77 4/30/77 4/30/77 4/30/77 4/30/77 4/30/77	2139 2149 2159 2214 2224 2234 2254 2259 2304 2314	0:20 0:30 0:40 0:55 1:05 1:15 1:40 1:45 1:50	369 369 369 370 370 369 369 369 369	39.11N 39.52N 39.91N 40.27N 40.76N 41.06N 41.34N 41.79N 41.89N 41.98N 42.06N 42.13N 42.25N	120.24W 118.53W 116.83W 115.08W 112.46W 110.64W 108.79W 105.08W 104.15W 103.21W 102.25W 101.34W 99.49W	-56. -57. -61. -60. -61. -59. -59. -59. -59.	.027	.421 .368 .187 .071 .073 .078 .059 .061 .053	•43 •53 •71	4/30/77 4/30/77 4/30/77 5/ 1/77 5/ 1/77 5/ 1/77 5/ 1/77 5/ 1/77 5/ 1/77 5/ 1/77 5/ 1/77 5/ 1/77	2354 2359 0004 0009 0014 0024 0034 0054 0059 0104	2:35 4 2:40 4 2:45 4 2:55 4 2:55 4 2:55 4 3:52 4 3:53 4 3:54 4 3:54 4 3:54 4	10 10 10 10 10 10 10 10 10 10	42.39N 42.43N 42.43N 42.42N 42.41N 42.39N 42.39N 42.39N 42.39N 42.39N 42.10N 41.93N 41.83N 41.83N 41.80N	95.85W 93.97W 93.01W 92.05W 91.08W 90.11W 86.18W 86.27W 84.31W 82.30W 81.31W 80.31W 79.32W	-64. -63. -62. -60. -57. -55. -54. -51. -53.	.095 .179 .137 .227 .218	.367 .313 .296 .310 .303 .276 .285 .423 .463 .496	58 29 42 46 34 63 36 54 47
4/30/77	2334	2:15	395	42.34N	97.67W	-63•	.056	•146	•38	5/ 1/77	0114	3:55 4	10	41.48N	₹3 - 34W	-52.	.293	•477	.61

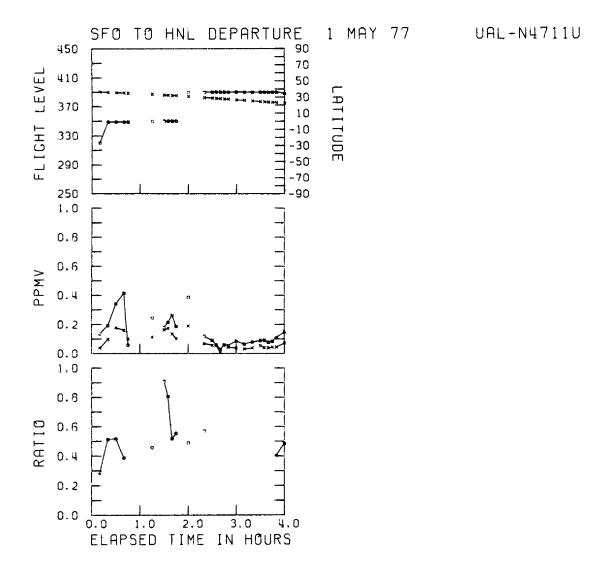


UAL-N4711U

JFK TO SFO (PAGE 1 OF 1) DEPARTURE: 1 MAY 77 AIRCRAFT: UAL-N4711U

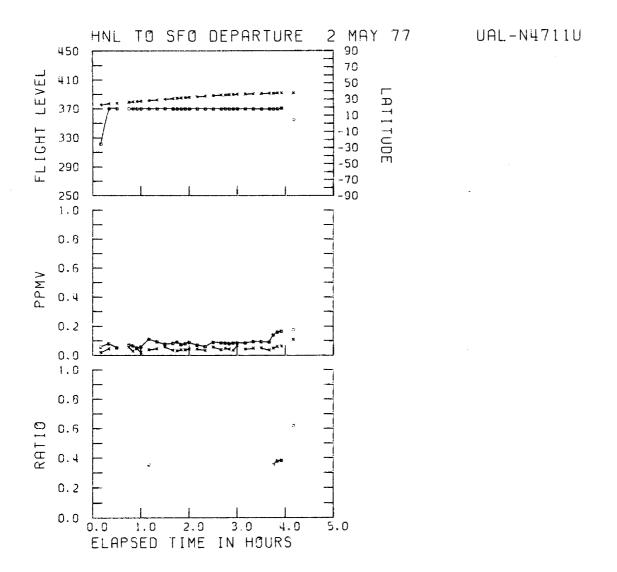
MAXIMUM VALUES: AMBIENT OZONE= .622 CABIN OZONE= .316 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .85 TOTAL OBS IN CABIN: 33 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(PPMV) RATIO Cabin Amb.	MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP (C)	OZONE(PPMV) RATIO CABIN AMB.
5/ 1/77 1442 5/ 1/77 1452 5/ 1/77 1502 5/ 1/77 1512 5/ 1/77 1517 5/ 1/77 1522 5/ 1/77 1527 5/ 1/77 1537 5/ 1/77 1537 5/ 1/77 1547 5/ 1/77 1607 5/ 1/77 1617 5/ 1/77 1622 5/ 1/77 1627 5/ 1/77 1627 5/ 1/77 1632	0:10 308 40.67N 0:20 350 40.76N 0:30 350 40.84N 0:40 350 40.99N 0:45 350 41.06N 0:50 350 41.12N 0:55 350 41.17N 1:00 350 41.26N 1:15 350 41.36N 1:25 350 41.36N 1:35 370 41.36N 1:45 370 41.36N 1:50 370 41.36N 1:55 370 41.35N 2:00 370 41.37N	77.22W -47. 78.88W -56. 80.54W -56. 82.22W -55. 83.04W -56. 83.87W -55. 85.53W -55. 86.37W -55. 88.06W -55. 89.75W -55. 91.38W -59. 92.96W -59. 93.74W -59. 94.54W -59.	.023 .078 .035 .100 .035 .065 .048 .083 .068 .079 .064 .084 .060 .090 .044 .079 .045 .042 .034 .100 .067 .105 .64 .060 .108 .56 .051 .090 .023 .085 .040 .084 .108 .127 .85	5/ 1/77 1637 5/ 1/77 1647 5/ 1/77 1657 5/ 1/77 1717 5/ 1/77 1722 5/ 1/77 1732 5/ 1/77 1737 5/ 1/77 1737 5/ 1/77 1737 5/ 1/77 1807 5/ 1/77 1822 5/ 1/77 1832 5/ 1/77 1837 5/ 1/77 1837 5/ 1/77 1847 5/ 1/77 1847 5/ 1/77 1857	2:05 357 41.35N 2:15 350 41.27N 2:25 350 41.16N 2:45 359 40.87N 2:50 390 40.78N 2:55 390 40.68N 3:05 390 40.58N 3:05 390 40.47N 3:25 390 40.00N 3:35 390 39.72N 3:45 390 39.25N 3:50 390 39.25N 3:50 390 39.25N 3:50 390 39.39N 4:00 390 38.75N 4:15 390 38.39N 4:25 385 38.09N	90.17W -56. 97.88W -54. 99.63W -55. 103.03W -57. 103.87W -63. 104.70W -63. 105.54W -61. 106.38W -56. 111.30W -54. 112.96W -54. 113.79W -51. 114.59W -51. 115.39W -51. 116.17W -53. 117.70W -54.	.059 .083 .041 .044 .042 .079 .037 .093 .041 .157 .26 .059 .247 .24 .125 .441 .28 .220 .406 .54 .215 .565 .38 .214 .430 .50 .227 .622 .36



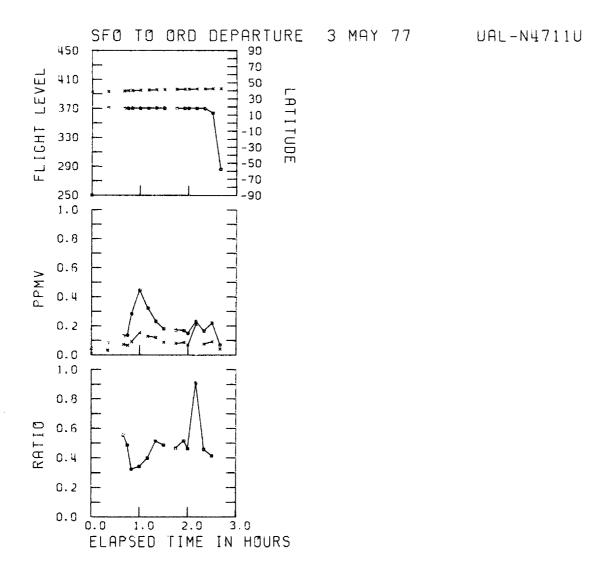
MAXIMUM VALUES: AMBIENT OZONE= .416 CABIN OZONE= .190 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .91 TOTAL OBS IN CABIN: 25 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM HR:MN		LAT		-	CABIN OZONE (		RATIO	MO/NA/YR GMT	HK:WN	FL	LAT	LONG		OZONE (		RATIO
5/ 1/77 2149 5/ 1/77 2159 5/ 1/77 220 5/ 1/77 2216 5/ 1/77 2216 5/ 1/77 230 5/ 1/77 231 5/ 1/77 231 5/ 1/77 231 5/ 1/77 232 5/ 1/77 233 5/ 1/77 235 5/ 1/77 235 5/ 1/77 235	0:20 0:30 0:40 0:45 1:15 1:35 1:45 2:00 2:20	349 349 349 350 350 350 350 390	36.48N 35.94N 35.55N 35.14N 34.92N 33.47N 32.63N 32.04N 32.04N 31.73N 30.77N 29.43N 28.74N	124.08W 125.35W 126.73W 128.09W 128.79W 133.10W 135.35W 136.09W 136.88W 137.62W 139.88W 142.82W	-53. -53. -55. -56. -55. -53. -53. -53. -55. -61.	.099 .177 .161 .100 .112 .164 .174 .136 .190	•342 •416 •059 •245 •180 •216 •263 •186 •388 •119	.51 .52 .39 .46 .91 .81 .52	5/ 2/77 0014 5/ 2/77 0019 5/ 2/77 0029 5/ 2/77 0029 5/ 2/77 0039 5/ 2/77 0059 5/ 2/77 0114 5/ 2/77 0119 5/ 2/77 0124 5/ 2/77 0129 5/ 2/77 0139	445000005050 4450014005050 445014450 445014450 445014450 44501450 4450 4	390 390 390 390 390 390 390 390 390	28.05N 27.70N 27.34N 26.61N 25.88N 25.15N 24.41N 24.04N 23.67N	144.95W 145.64W 146.33W 147.02W 148.39W 149.73W 151.02W 152.30W 152.93W 152.93W 154.18W 154.80W 156.03W	-62. -62. -61. -60. -61. -59. -59. -60. -59.	.010 .043 .037 .031 .039 .054 .040 .039 .043	.061 .028 .060 .055 .086 .065 .080 .090 .092 .078 .085 .109	.40 .48



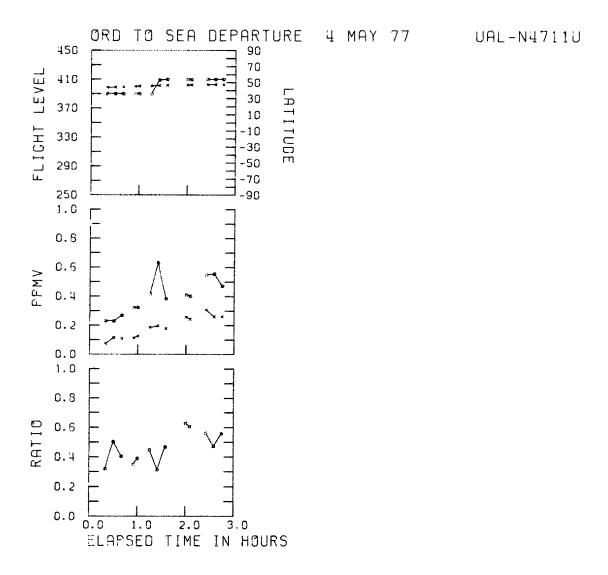
MAXIMUM VALUES: AMBIENT OZONE= .176 CABIN OZONE± .109 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .62 TOTAL OBS IN CABIN: 31 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM HR:MN		LAT			CABIN OZONE (		RATIO	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (	PPMV) AMB.	RAT10
5/ 2/77 2009 5/ 2/77 2019 5/ 2/77 2029 5/ 2/77 2044 5/ 2/77 2054 5/ 2/77 2059 5/ 2/77 2109 5/ 2/77 2129 5/ 2/77 2139 5/ 2/77 2139 5/ 2/77 2139 5/ 2/77 2144 5/ 2/77 2154 5/ 2/77 2159	0:20 0:30 0:45 0:50 0:55 1:00 1:20 1:30 1:40 1:45	370 370 370 370 370 370 370 370 370 370	23.06N 24.32N 25.06N 26.33N 26.75N 27.17N 27.58N 28.41N 29.23N 30.03N 30.82N 31.21N 31.60N 31.98N 32.35N	156.62W - 156.21W - 155.03W - 153.37W - 152.81W - 152.25W - 151.68W - 150.52W - 149.33W - 148.13W - 146.92W - 146.92W - 145.69W - 145.69W - 145.08W - 144.46W -	555. 556. 556. 556. 555. 555. 555.	.020 .045 .050 .056 .029 .048 .019 .039 .045 .057 .035 .032 .038	.079 .052 .071 .065 .050 .057 .110 .093 .076 .082 .091	•35	5/ 2/17 5/ 2/17	2219 2229 2239 2244 2259 2319 2319 2339 2334 2349 2354	2000 500 500 000 4450 5	370 370 370 370 370 370 370 370 370 370	33.09N 33.82N 34.55N 35.11N 35.32N 35.52N 35.52N 36.27N 36.27N 36.61N 36.92N 37.21N 37.35N 37.48N 37.60N 37.74N	136.00W 134.44W 132.89W	-55. -55. -55. -55. -54. -55. -54. -55. -54. -53. -53.	.048 .042 .035 .067 .042 .048 .050 .036 .049 .060	.069 .060 .089 .085 .083 .080 .084 .085 .094 .093 .091 .139 .159 .165	.38



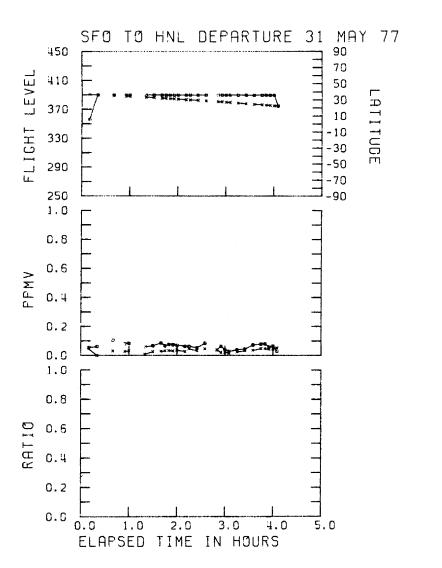
MAXIMUM VALUES: AMBIENT OZONE= .446 CABIN OZONE= .211 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .91 TOTAL OBS IN CABIN: 16 DATA SOURCE: GASP TAPE VLU12, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PF (C) CABIN A		MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP (C)	OZONE(PPMV) RATIO CABIN AMB.
5/ 3/77 1746	0:00 221 38.08N	120.99W -22009	045	5/ 3/77 1916	1:30 370 41.33N	104.25W -60.	.088 .181 .49
5/ 3/77 1806	0:20 371 38.85N	117.36W -55032	085	5/ 3/77 1931	1:45 370 41.67N	101.35W -60.	.080 .172 .47
5/ 3/77 1826	0:40 370 39.71N	113.72W -55(1	132 •55	5/ 3/77 1941	1:55 370 41.85N	99.41W -59.	.087 .169 .51
5/ 3/77 1831	0:45 370 39.90N	112.80W -54(36	136 •49	5/ 3/77 1946	2:00 370 41.92N	98.49W -59.	.069 .149 .46
5/ 3/77 1836	0:50 370 40.09N	111.90w -53092	283 •33	5/ 3/77 1956	2:10 370 42.05N	96.61W -57.	.211 .232 .91
5/ 3/77 1846	1:00 370 40.44N	110.06W -53153	446 •34	5/ 3/77 2006	2:20 370 42.14N	94.73W -55.	.076 .166 .46
5/ 3/77 1856	1:10 370 40.77N	108.16W -57129	324 •40	5/ 3/77 2016	2:30 364 42.30N	92.86W -56.	.091 .220 .41
5/ 3/77 1906	1:20 371 41.07N	106.22W -59119	232 •51	5/ 3/77 2026	2:40 286 42.60N	91.40W -37.	.042 .070



MAXIMUM VALUES: AMBIENT UZUNE= .631 CABIN UZUNE= .308 RATIO (LIMITED TO AMB. OZUNE ABOVE 0.1)= .63 TOTAL OBS IN CABIN: 13 DATA SOURCE: GASP TAPE VL012, FILE 2

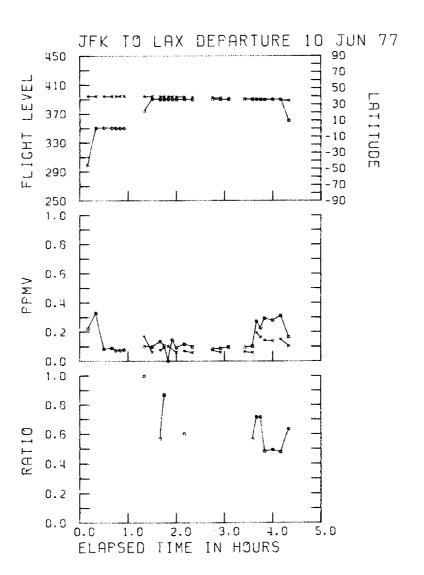
MO/DA/YR GMT	ETIM FL LAT HR:MN		ZONE(PPMV) RATIO ABIN AMB.	MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP	OZONE (PPMV) RATIO CABIN AMB.
5/ 4/77 0020 5/ 4/77 0030 5/ 4/77 0040 5/ 4/77 0055 5/ 4/77 0115	0:30 390 44.30N 0:40 390 44.71N 0:55 390 45.26N 1:00 390 45.43N	93.15W -57. 94.85W -57. 97.37W -61. 98.21W -62.	.074	5/ 4/77 0125 5/ 4/77 0135 5/ 4/77 0200 5/ 4/77 0205 5/ 4/77 0226 5/ 4/77 0236 7/ 4/77 0246	1:35 410 46.64N 2:00 410 47.13N 2:05 410 47.21N 2:26 410 47.44N 2:36 410 47.52N	104.37W -52. 109.14W -49. 110.10W -48. 114.23W -42. 116.20W -42.	.198



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MAXIMUM VALUES: AMBIENT OZONE= .107 CABIN OZONE= .052 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .29 TOTAL OBS IN CABIN: 28 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN OZONE	(PPMV) AMB.	RATIO	MOZDAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN		RATIO
5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77	0522 0542 0557 0602 0622 0632 0642 0647 0652 0657 0702	0:20 0:40 0:55 1:00 1:20 1:30 1:40 1:45 1:50	390 390 390 390 390 390 390 390 390	31.63N 31.35N 31.07N	124.44W 125.79W 128.74W 130.90W 131.64W 135.85W 137.20W 137.86W 138.52W 139.83W 141.13W	-61. -61. -60. -60. -59. -59. -59.	.028 .032 .009 .025 .028 .032 .034	.062 .107 .082 .084 .060 .067 .086 .067 .076	•29	5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77 5/31/77	0737 0752 0757 0802 0807 0817 0827 0837 0847 0852	2:50 2:50 3:50 3:10 3:12 3:12 3:13 3:15 3:15 3:15 3:15 3:15 3:15	390 390 390 390 390 390 390 390 390	24.56N	143.08W 144.38W 146.94W 146.94W 147.56W 148.20W 149.47W 150.76W 152.04W 153.32W 153.95W 155.26W	-59. -58. -58. -58. -58. -58. -57. -57.	.033 .047 .039 .021 .022 .016 .025 .032 .036 .047 .047	.053 .085 .038 .063 .040 .029 .040 .045 .073 .079 .080	
5/31/77	- ,				141.79W		.047	• • •		5/31/77				22.40N	155.91W		.052	•030	

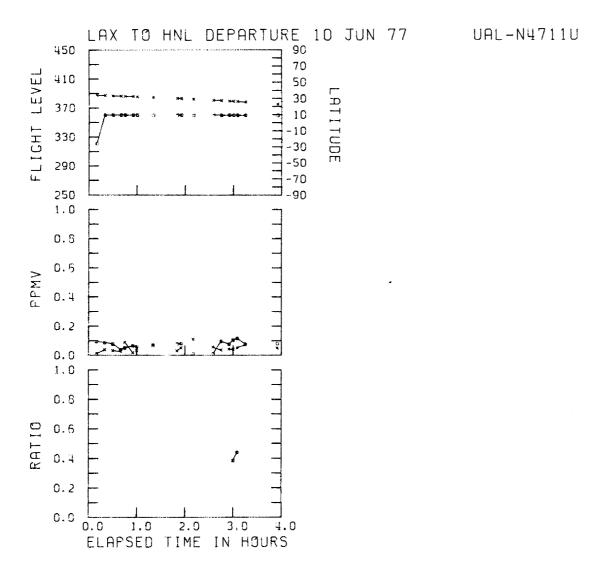


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JFK TO LAX (PAGE 1 OF 1) DEPARTURE: 10 JUN 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE= .329 CABIN OZONE= .194 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.65 TOTAL OBS IN CABIN: 19
DATA SOURCE: GASP TAPE VL012, FILE 2

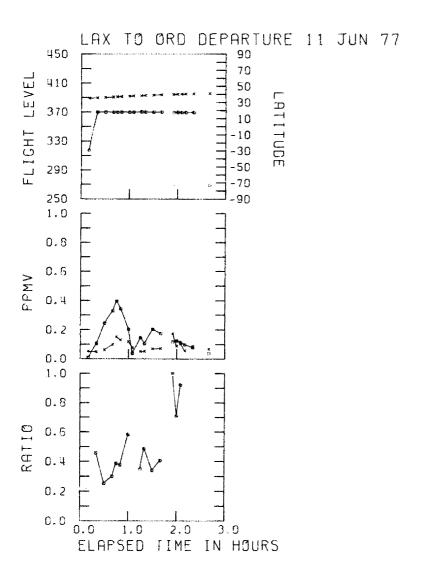
MO/DA/YR GMT	ETIM FL HR:MN	LAT		OZONE(PPMV) RATIO CABIN AMB.	MOZŊAZYR GM	T ETIM HR:MN	FL	LAT	LONG TEMP	OZONE (PPMV) CABIN AMB	
6/10/77 1641 6/10/77 1651 6/10/77 1701 6/10/77 1711 6/10/77 1716 6/10/77 1721 6/10/77 1726 6/10/77 1751 6/10/77 1801 6/10/77 1811 6/10/77 1816 6/10/77 1821 6/10/77 1826	0:10 299 0:20 350 0:30 351 0:40 350 0:45 350 0:55 350 1:20 374 1:30 390 1:45 390 1:55 390	39.97N 40.01N 40.02N 40.02N 40.02N 40.00N 39.86N 39.76N 39.63N 39.55N 39.47N	76.33w -41. 77.97w -48. 79.61w -49. 81.19w -49. 82.00w -48. 82.79w -47. 83.61w -48. 87.69w -53. 89.35w -57. 91.06w -56. 91.89w -55. 92.74w -56.	•223 •329 •084 •091 •074 •075 •079 •168 •102 1.65 •062 •098 •076 •134 •57 •093 •107 •87 •104 •001 •144	6/10/77 183 6/10/77 184 6/10/77 185 6/10/77 191 6/10/77 193 6/10/77 200 6/10/77 201 6/10/77 202 6/10/77 202 6/10/77 203 6/10/77 203 6/10/77 204 6/10/77 204	1 2 10 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	390 390 390 390 390 390 390 390 390	39.30N 39.12N 38.92N 38.33N 37.95N 37.65N 37.01N 36.66N 36.48N 36.30N 36.07N 35.59N 35.09N 34.56N	94.40W +56. 98.04W -55. 97.63W -56. 101.61W -53. 103.77W -51. 105.31W -51. 108.31W -52. 110.49W -53. 111.19W -52. 113.27W -54. 114.67W -54.	.058 .099 .076 .089 .061 .086 .094 .097 .065 .096 .058 .103 .194 .271 .164 .229 .142 .293 .138 .280	.50 .74 .74 .48



LAX TO HNL (PAGE 1 OF 1) DEPARTURE: 10 JUN 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE= .116 CABIN OZONE= .110 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .44 TOTAL OBS IN CABIN: 18 DATA SOURCE: GASP TAPE VL012, FILE 2

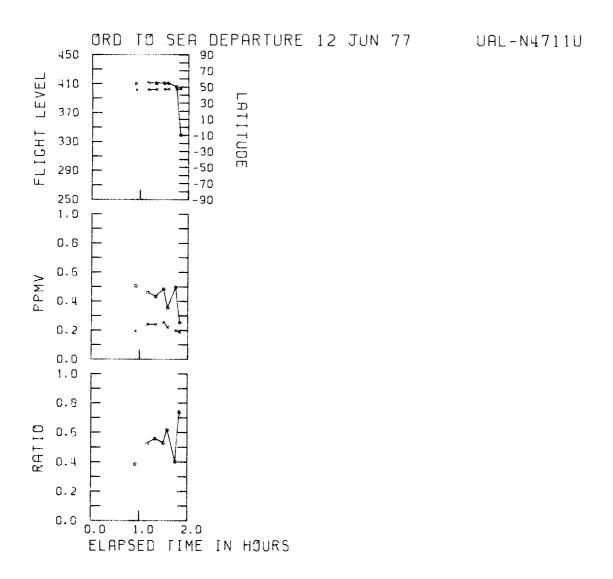
MO/DA/YR G	GMT	ETIM HR:MN	FL	LAT	LONG		CARIN OZONE (		RATIO	MOZDAZYR	GMT	ETIM HK:MN	FL	LAT	LONG	TEMP (C)	OZONE ( CABIN		RATIO
6/10/77 23 6/10/77 23 6/10/77 23 6/11/77 00 6/11/77 00 6/11/77 00 6/11/77 00 6/11/77 01	347 356 007 012 021 026 047	0:21 0:30 0:41 0:46 0:55 1:00 1:21	360 360 360 360 360 360 360	33.48N 33.16N 32.83N 32.66N 32.31N 32.13N 31.36N	121.24W 122.57W 124.08W 125.53W 126.25W 127.67W 128.37W 131.21W 135.40W	-53. -53. -52. -52. -52. -51.	.038 .033 .026 .090 .018 .032	.086 .077 .039 .051 .064		6/11/77 6/11/77 6/11/77 6/11/77 6/11/77 6/11/77 6/11/77 6/11/77	0136 0202 0212 0221 0226 0232 0242	3:10 3:00 3:00 3:10 3:10	360 360 360 360 360 360 360	29.14N 27.86N 27.32N 26.76N 26.47N 26.18N 25.58N	130.10W 138.17W 141.64W 143.02W 144.38W 145.08W 145.77W 147.13W 152.56W	-51. -50. -50. -50. -50. -49.	.110 .056 .036 .043 .040 .051	.011 .011 .095 .076 .104	-



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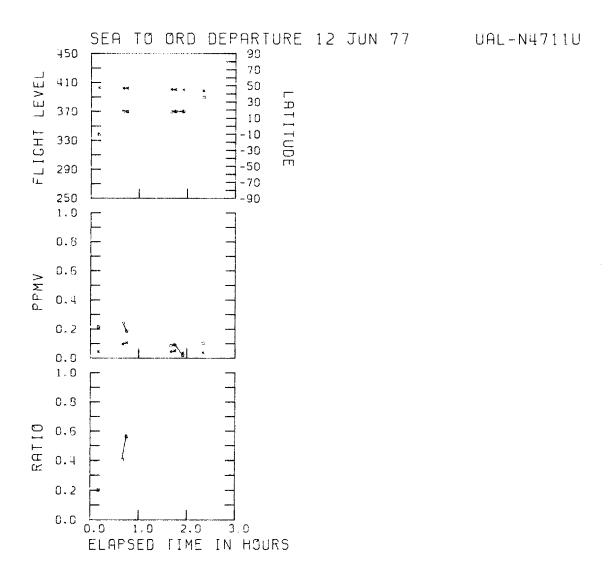
MAXIMUM VALUES: AMBIENT OZONE= .396 CABIN OZONE= .173 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= 1.48 TOTAL OBS IN CABIN: 18 DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN		NE(PPMV) RATIO IN AMB•	MO/DA/YR GMT LTIM FL I HR:MN	LAT LONG TEMP OZONE(PPMV) RATI (C) CABIN ^MB.	0
6/11/77 1801 6/11/77 1811 6/11/77 1821 6/11/77 1831 6/11/77 1836 6/11/77 1851 6/11/77 1856 6/11/77 1856	0:20 370 35.68N 0:30 370 36.23N 0:40 370 36.74N 0:45 370 36.98N 0:50 370 37.22N 1:00 370 37.70N 1:05 370 37.93N	107.69W -55	48 •105 •46 62 •245 •25 99 •330 •30 53 •396 •39	6/11/77 1911 1:20 370 3 6/11/77 1921 1:30 370 3 6/11/77 1931 1:40 370 3 6/11/77 1946 1:55 370 3 6/11/77 1951 2:00 370 4 6/11/77 2001 2:10 369 4 6/11/77 2011 2:20 370 4 6/11/77 2031 2:40 269 4	9.38N 101.46W -50071 .175 .41 9.92N 98.70W -48173 .117 1.48 0.09N 97.77W -47088 .124 .71 0.24N 96.86W -48104 .113 .92 0.39N 95.95W -49055 .099 0.67N 94.14W -50087 .078	• •



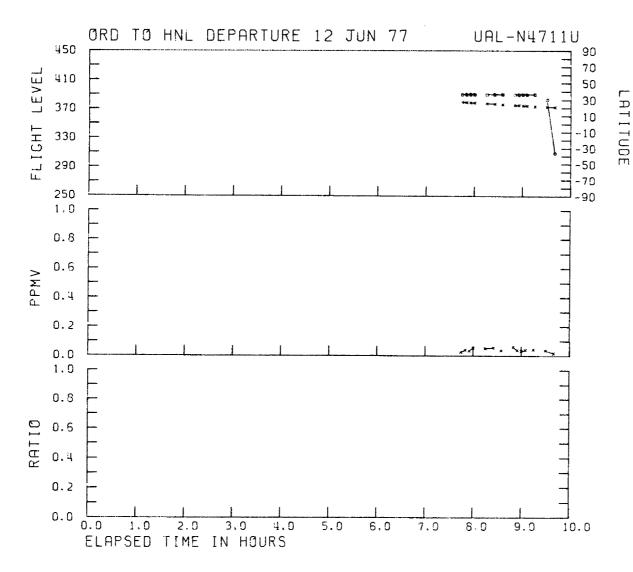
MAXIMUM VALUES: AMBIENT OZONE= .508 CABIN OZONE= .256 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .74 TOTAL OBS IN CABIN: / DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) (C) CABIN AMB.		10/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
6/12/77 0245	1:10 411 46.73N	109.38W -50196 .508 112.16W -50242 .461 114.03W -50241 .433	•52	6/12/77 0305 6/12/77 0310 6/12/77 0320 6/12/77 0325	1:35 411 47.24N 1:45 406 47.45N	115.88W -48256 .484 .53 116.80W -48220 .357 .62 118.72W -47200 .497 .40 119.67W -50187 .253 .74



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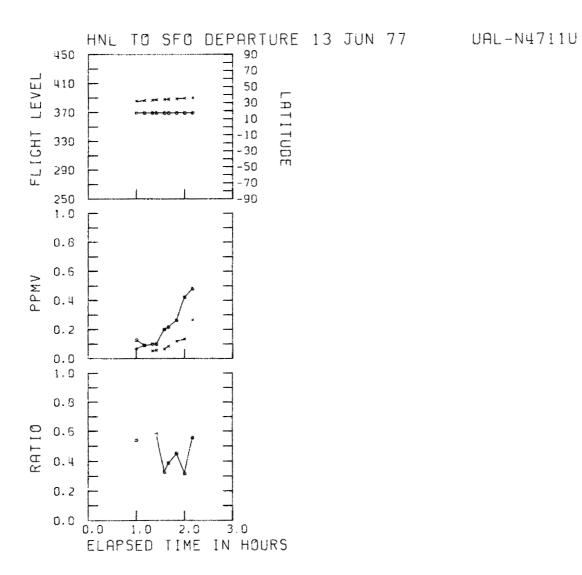
MAXIMUM VALUES: AMBIENT OZONE= .241 CABIN OZONE= .106 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= DATA SOURCE: GASP TAPE VL012, FILE 2 6/12/77 1536 6/12/77 1606 6/12/77 1611 MO/DA/YR GMT HR:MN 0:10 0:40 0:45 339 47.27N 370 47.00N 370 46.92N FL LAT 118.88W -52. 112.63W -55. 111.56W -55. LONG TEMP OZUNE (PPMV) RATIO (C) CABIN AMB. .044 .044 .216 .241 .41 .41 MOZDAZYR 6/12/77 1706 6/12/77 1711 6/12/77 1721 6/12/77 1746 GMT 1:40 370 45.51N 1:45 370 45.34N 1:55 370 44.97N 2:20 390 43.87N ٦ LAT •56 100.91W -56. 100.00W -56. 98.15W -55. 93.47W -58. LONG TOTAL OBS IN CABIN: 7 (C) OZONE (PPMV) RATIO CABIN. AMB. .045 .050 .038 .092 38



ORD TO HAL (PAGE 1 OF 1) DEPARTURE: 12 JUN 77 AIRCRAFT: UAL-N4711U

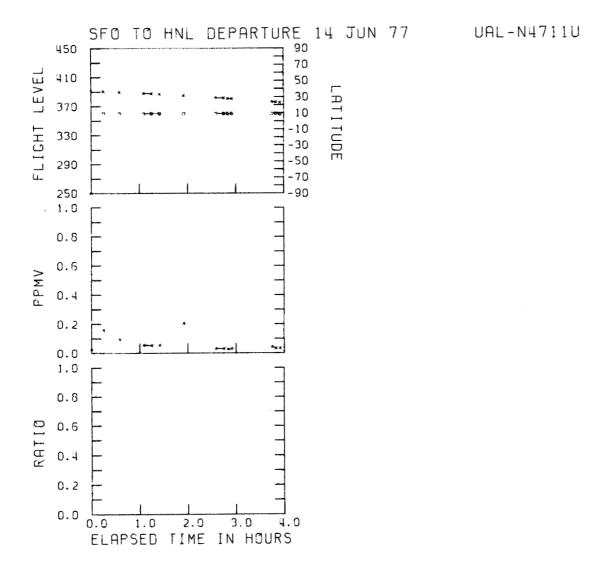
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .062 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 14
DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO	MO/DA/YR GMT	ETIM FL LAT	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
6/13/77 0539 6/13/77 0544 6/13/77 0549 6/13/77 0554 6/13/77 0609 6/13/77 0619 6/13/77 0629	7:53 390 26.76N 7:58 391 26.50N 8:03 390 26.25N 8:18 390 25.46N 8:28 390 24.92N	143.25W -54055	6/13/77 0644 6/13/77 0649 6/13/77 0654 6/13/77 0659 6/13/77 0709 6/13/77 0724 6/13/77 0734	8:58 390 23.21N 9:03 390 22.92N 9:08 390 22.63N 9:18 390 22.02N 9:33 384 21.52N	150.19W -56038 150.80W -56034 151.41W -56040 152.64W -56044



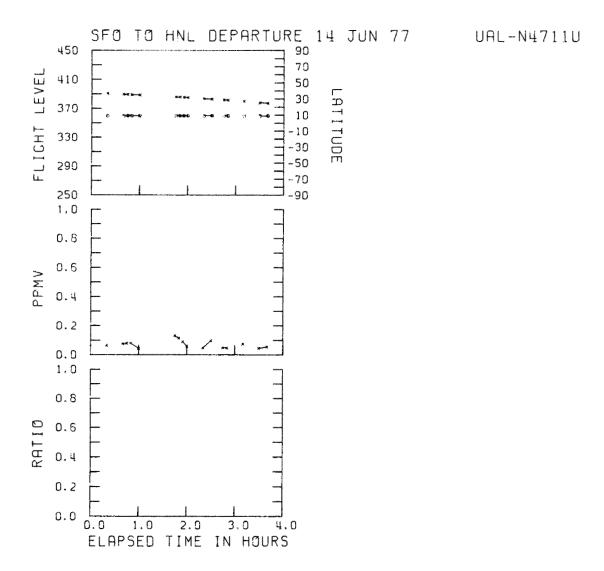
MAXIMUM VALUES: AMBIENT OZONE= .481 CABIN OZONE= .267 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .56 TOTAL OBS IN CABIN: 9
DATA SOURCE: GASP TAPE VL012, FILE 2

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		CABIN OZONE (		MO/DA/YR	GMT	ETIM F		LONG TEM	P OZONE( CABIN		RATIO
6/13/77 6/13/77 6/13/77 6/13/77	2244 2254	1:14	369 369	32.82N 33.40N	136.18W 134.57W 132.96W 132.16W	-55. -55.	.092 .054	•090 •099	6/13/77 6/13/77 6/13/77 6/13/77 6/13/77	2314 2324 2334	1:44 30 1:54 30 2:04 30	69 34.47N 69 34.97N 69 35.47N	130.57W -53 129.78W -53 128.16W -50 126.47W -48 124.88W -47	084 119 134	.217 .264 .422	.39 .45 .32



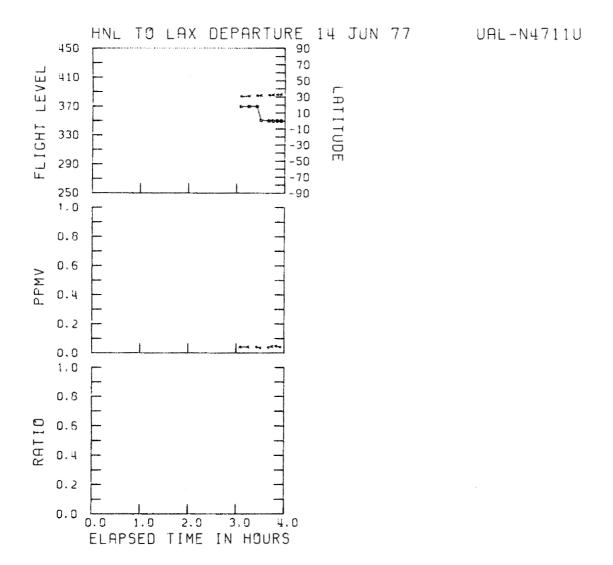
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .204 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 14 DATA SOURCE: GASP TAPE VL012, FILE 3

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZUNE(PPMV) RATIO (C) CABIN AMB.	MOZDAJYR GMT ETIM FL LAT HK:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
6/14/77 0324	0:00 215 37.36N	123.76W -21027	6/14/77 0601 2:3/ 360 29.05N	145.74W -50032
6/14/77 0341	0:17 360 36.67N	126.19W -49158	6/14/77 0611 2:47 360 28.37N	14/.06W -50030
6/14/77 0401	0:37 360 35.81N	129.11W -53095	6/14/77 0616 2:52 360 28.02N	147.73W -50026
6/14/77 0431	1:07 360 34.38N	133.38W -54055	6/14/77 0621 2:57 360 27.66N	148.39W -50031
6/14/77 0441	1:17 360 33.85N	134.82W -55052	6/14/77 0711 3:4/ 360 23.91N	154.80W -50043
6/14/77 0451	1:27 360 33.31N	136.23W -55056	6/14/77 0716 3:52 360 23.41N	155.33W -50033
6/14/77 0521	1:57 360 31.60N	140.33W -51204	6/14/77 0722 3:58 359 22.79N	155.97W -50033



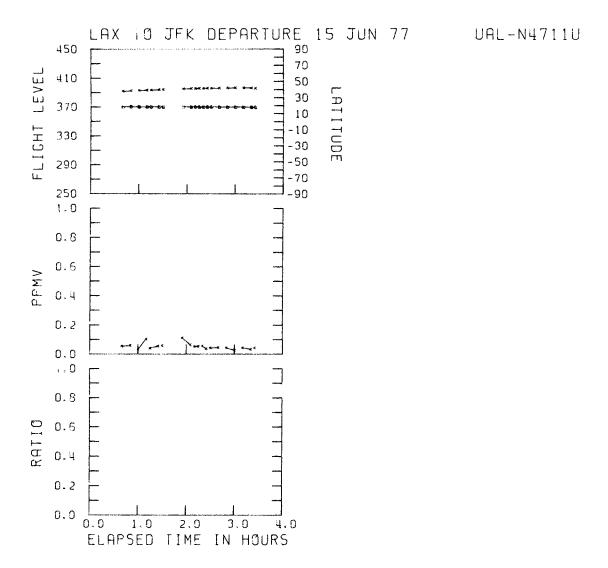
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .131 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 16 DATA SOURCE: GASP TAPE VL012, FILE 3

MO/DA/YR	GMT	ETIM HR:MN		LAT	-	EMP C)	OZONE(PPMV) RATIO CABIN AMB•	MO/DA/YR	GMT	ETIM HŘ:MN	FL	LAT	LONG		OZONE( CABIN	 RATIO
6/14/77	1709	0:20	360	36.61N	126.39W -	54.	.064	6/14/77	1849	2:00	360	31.57N	140.39W	-52.	.059	
6/14/77	1729	0:40	360	35.74N	129.30W -	54.	.075	6/14/77	1909	2:20	360	30.36N	143.03W	-50.	.048	
6/14/77	1734	0:45	360	35.50N	130.05W -	54.	.079	6/14/77	1919	2:30	360	29.74N	144.32W	-50.	.097	
6/14/77	1739	0:50	360	35.27N	130.76W -	55•	.080	6/14/77	1934	2:45	360	28.75N	146.30W	-44.	.049	
6/14/77	1749	1:00	360	34.76N	132.26W -	55•	.045	6/14/77	1939	2:50	360	28.41N	146.95W	-49.	.047	
6/14/77	1834	1:45	360	32.42N	138.41W -	52•	.131	6/14/77	1959	3:10	360	27.02N	149.55W	-49.	.074	
6/14/77	1839	1:50	360	32.15N	139.05W -	51.	.115	6/14/77	2022	3:33	360	25.32N	152.51W	-49.	.045	
6/14/77	1844				139.70W -	_		6/14/77	2032	3:43	360	24.56N	153.78W	-49.	.054	



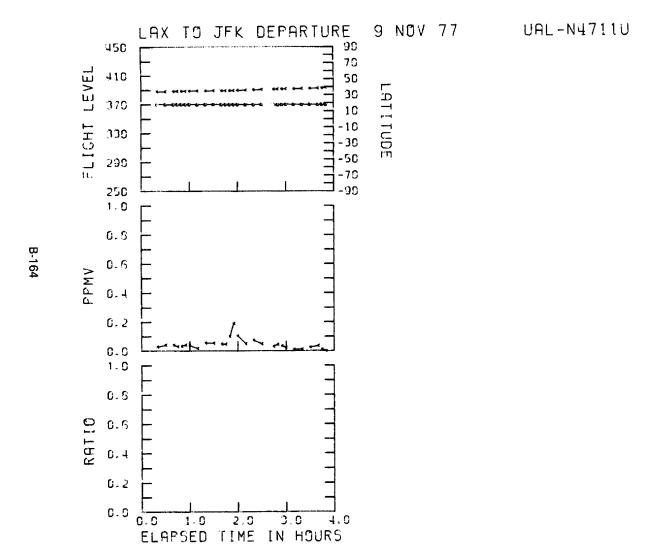
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .049 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL UBS IN CABIN: 8 DATA SOURCE: GASP TAPE VL012, FILE 3

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
6/15/77 0216 6/15/77 0226	3:05 370 30.75N 1 3:15 370 31.21N 1 3:25 370 31.65N 1 3:30 351 31.85N 1	128.15w -51043 126.38w -50043	6/15/77 0246 3:45 350 32.55N 6/15/77 0251 3:50 350 32.82N	123.80W -46039 122.93W -46046 122.07W -46049 121.24W -46042



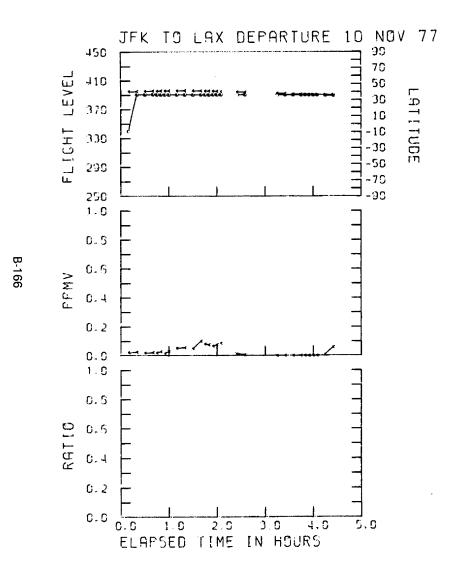
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .112 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 20 DATA SOURCE: GASP TAPE VL012, FILE 3

MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE(PPMV) RATI CABIN AMB.	IO MOZGAZYR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP (C)	OZONE (PPMV) (CABIN AMB.	RATIO
6/15/77	2038	0:41	370	37.97N	107.19W	-51•	•056	6/15/77	2216	2:19	370	41.44N	89.62W	-50.	.054	
6/15/77	2049	0:52	370	38.50N	105.12W	-51.	.060	6/15/77	2221	2:24	370	41.55N	68.74W	-50.	• 057	
6/15/77	2059	1:02	370	38.93N	103.31W	-50.	•035	6/15/77	2226	2:29	370	41.65N	87.84W	-51.	.038	
6/15/77	2109	1:12	370	39.32N	101.52W	-49.	.103	6/15/77	2231	2:34	370	41.75N	86.93W	-51.	• 0 4 4	
6/15/77	2114	1:17	370	39.51N	100.62W	-49.	.042	6/15/77	2241	2:44	370	41.92N	85.11W	-52.	.046	
6/15/77	2124	1:27	370	39.88N	98.82W	-48.	.056	6/15/77	2251	2:54	370	42.04N	83.25W	-52.	.045	
6/15/77	2131	1:34	370	40.12N	97.65W	-49.	.059	6/15/77	2301	3:04	370	42.12N	81.36W	-52.	.027	
6/15/77	2156	1:59	370	40.93N	93.17W	-50.	.112	6/15/77	2311	3:14	370	42.18N	79.47W	-53.	.044	
6/15/77	2206	2:09	370	41.20N	91.42W	-49.	.065	6/15/77	2321	3:24	370	41.85N	77.63W	-52.	.033	
6/15/77	2211	2:14	370	41.32N	90.52W	-50.	.054	6/15/77	2326	3:29	370	41.64N	76.74W	-51.	• 044	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .190 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 28 DATA SOURCE: GASP. TAPE VL014, FILE 2

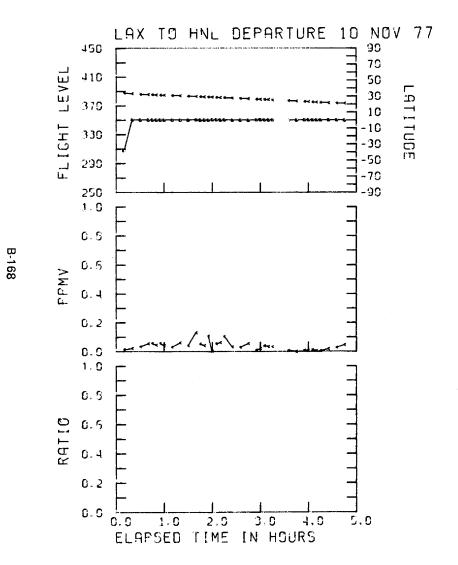
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) R (C) CABIN AMB.	ATIO MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
11/ 9/77 2103 11/ 9/77 2113 11/ 9/77 2123 11/ 9/77 2128 11/ 9/77 2133 11/ 9/77 2133 11/ 9/77 2143 11/ 9/77 2153 11/ 9/77 2203 11/ 9/77 2213	0:20 370 34.14N 0:30 370 34.39N 0:40 370 34.61N 0:45 370 34.71N 0:50 370 34.81N 0:55 370 34.88N	114.17W -54029 112.46W -54042 110.76W -54042 109.89W -55034 108.13W -55042 107.24W -54040 105.47W -55018 103.69W -54055	11/ 9/77 2243 11/ 9/77 2253 11/ 9/77 2303 11/ 9/77 2313 11/ 9/77 2328 11/ 9/77 2333 11/ 9/77 2343 11/ 9/77 2343 11/ 9/77 2353 11/ 9/77 2353 11/ 9/77 0003	2:00 370 35.75N 2:10 370 36.12N 2:20 370 36.47N 2:30 370 36.80N 2:45 370 37.22N 2:50 370 37.34N 2:55 370 37.46N 3:00 370 37.57N 3:10 370 37.77N 3:20 370 37.93N	96.38W -40105 94.57W -41049 92.69W -42074 90.75W -42048 87.91W -50031 86.92W -52044 85.92W -51035 84.96W -53024 82.96W -53011 80.98W -53012
11/ 9/77 2223 11/ 9/77 2228 11/ 9/77 2233 11/ 9/77 2238	1:40 370 35.42N 1:45 370 35.45N 1:50 370 35.47N 1:55 370 35.55N	99.11W -43047 98.18W -42101	11/10/77 0013 11/10/77 0023 11/10/77 0028 11/10/77 0033	3:30 370 38.06N 3:40 370 38.43N 3:45 370 38.72N 3:50 370 39.06N	79.03W -52025 77.18W -52035 76.30W -52011 75.46W -52000



UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .101 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 29 DATA SOURCE: GASP TAPE VL014, FILE 2

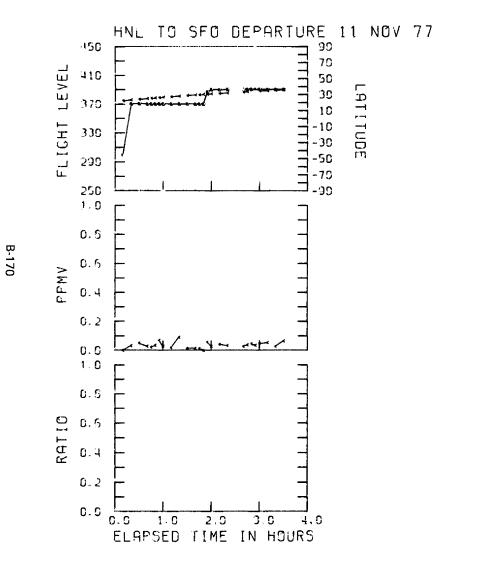
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB	MO/DA/YR GMT ETIM FL LAT HR:MM	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
11/10/77 0454 11/10/77 0504 11/10/77 0514 11/10/77 0524 11/10/77 0534 11/10/77 0539 11/10/77 0544 11/10/77 0554 11/10/77 0604 11/10/77 0614 11/10/77 0624 11/10/77 0629	0:10 340 40.54N 0:20 390 40.87N 0:30 391 41.04N 0:40 391 41.17N 0:45 391 41.23N 0:50 390 41.28N 0:55 390 41.33N 1:00 390 41.38N 1:10 390 41.50N 1:20 390 41.50N 1:40 390 41.50N 1:40 390 41.19N	76.31W -45022 77.76W -58026 79.24W -58020 80.75W -58023 81.48W -57021 82.19W -58028 82.92W -55017 83.69W -52029 85.31W -47053 87.00W -46055 88.75W -42050 90.45W -41101 91.31W -41081	11/10/77 0802 3:18 390 38.22N 11/10/77 0812 3:28 390 37.80N 11/10/77 0822 3:38 390 37.37N 11/10/77 0832 3:48 390 36.91N 11/10/77 0837 3:53 390 36.67N 11/10/77 0842 3:58 390 36.43N	111.98W -54000 112.71W -55000
11/10/77 0634	1:50 390 41.08N	92.16W -43075	11/10/77 0902 4:18 390 35.41N 11/10/77 0912 4:28 390 34.76N	- · · · · · · · · · · · · · · · · · · ·



UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .131 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 37 DATA SOURCE: GASP TAPE VL014, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN		OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR GMT	ETIM FI LAT HR:MN	LONG TEMP	OZONE(PPMV) RATIO CABIN AMB.
11/10/77 1812 11/10/77 1822 11/10/77 1832 11/10/77 1842 11/10/77 1847 11/10/77 1857 11/10/77 1952 11/10/77 1912 11/10/77 1922 11/10/77 1932 11/10/77 1942 11/10/77 1947 11/10/77 1957 11/10/77 1957	HR:MN  0:10 308 33.96N 0:20 350 33.31N 0:30 350 32.53N 0:40 350 32.63N 0:45 350 31.86N 0:55 350 31.68N 0:55 350 31.51N 1:00 350 31.32N 1:10 350 30.94N 1:20 350 30.53N 1:30 350 30.12N 1:40 351 29.69N 1:45 350 29.48N 1:55 350 29.26N 1:55 350 29.26N 2:00 351 28.82N	(C)  121.26W -38. 122.54W -50. 123.68W -50. 125.01W -50. 125.74W -51. 126.45W -51. 127.17W -51. 127.89W -51. 130.79W -51. 132.20W -50. 133.58W -52. 134.26W -51. 134.94W -52. 135.60W -52. 136.25W -51.	.014 .023 .035 .056 .059 .046 .059 .042 .032 .061 .042 .131 .054	11/10/77 2017 11/10/77 2027 11/10/77 2037 11/10/77 2047 11/10/77 2057 11/10/77 2102 11/10/77 2107 11/10/77 2117 11/10/77 2117 11/10/77 2137 11/10/77 2157 11/10/77 2207 11/10/77 2207 11/10/77 2212	2:15 351 28.16N 2:25 350 27.71N 2:35 350 27.27N 2:45 350 26.83N 2:55 351 26.36N 3:00 351 26.12N 3:05 350 25.88N 3:10 350 25.63N 3:15 350 25.38N 3:35 350 24.35N 3:45 350 23.82N 3:55 350 23.27N 4:00 350 22.72N 4:10 350 22.44N 4:15 350 22.15N	138.17W -51. 139.39W -49. 140.56W -49. 141.72W -49. 142.89W -49. 143.49W -48. 144.67W -48. 145.26W -48. 147.61W -48. 148.78W -47. 149.95W -47. 150.53W -46. 151.69W -46.	.105 .033 .030 .056 .011 .021 .040 .034 .034 .008 .000 .009 .009
11/10/77 2007 11/10/77 2012	2:05 351 28.60N 2:10 350 28.38N	136.90W -51. 137.54W -51.		11/10/77 2227 11/10/77 2237 11/10/77 2247	4:25 350 21.72N 4:35 350 21.39N 4:45 350 21.03N	153.51W -46. 154.81W -46. 156.10W -46.	.028



UAL-N4711U

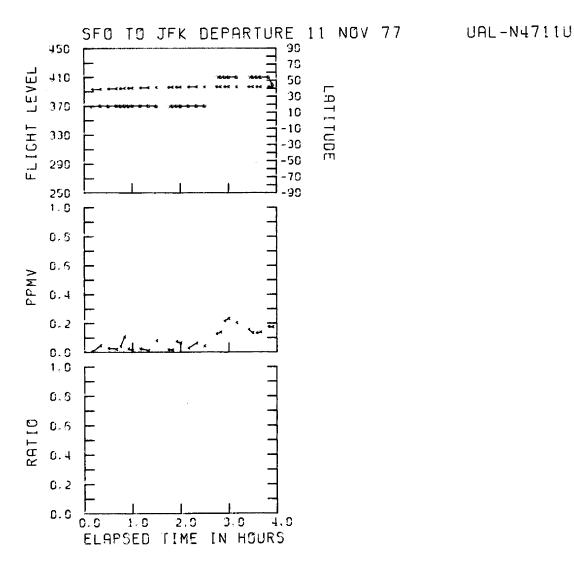
DEPARTURE: 11 NOV 77

AIRCRAFT:

UAL-N4711U

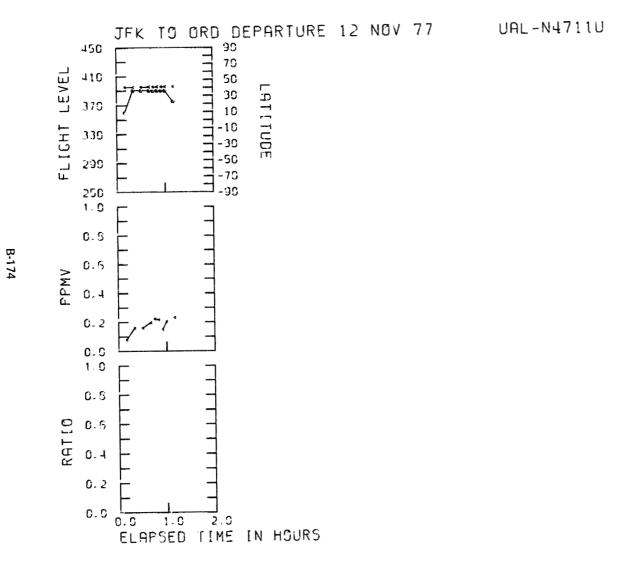
4AXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .090 RATPO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 26 DATA SOURCE: GASP TAPE VL014, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) (C) CABIN AMB.	RATIO MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
11/11/77 0106 11/11/77 0119 11/11/77 0129 11/11/77 0139 11/11/77 0144	0:33 371 24.18N 0:43 370 24.99N	154.06W -52032 152.69W -53051	11/11/77 0249 11/11/77 0259 11/11/77 0259 11/11/77 0309 11/11/77 0319	1:58 387 30.45N 2:03 390 30.77N 2:13 390 31.42N	139.87W -58028 138.37W -58042
11/11/77 0149 11/11/77 0154 11/11/77 0159 11/11/77 0209 11/11/77 0219 11/11/77 0229 11/11/77 0239 11/11/77 0244	0:58 370 26.18N 1:03 370 26.57N 1:13 370 27.34N 1:23 370 28.08N 1:33 370 28.78N	147.01W -55018 145.58W -56090 144.17W -55014 142.75W -55014	11/11/77 0339 11/11/77 0344 11/11/77 0349 11/11/77 0354 11/11/77 0459 11/11/77 0419 11/11/77 0429	2:48 391 33.66N 2:53 391 33.99N 2:58 390 34.31N 3:03 391 34.66N 3:13 390 34.91N 3:23 391 35.41N	132.14W -56045 131.34W -57034



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .234 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 29
DATA SOURCE: GASP TAPE VL014, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.	MOZDAZYR GMT ETIM- FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
11/11/77 2110 11/11/77 2120 11/11/77 2130 11/11/77 2140 11/11/77 2150 11/11/77 2155 11/11/77 2200 11/11/77 2220 11/11/77 2230 11/11/77 2230 11/11/77 2230 11/11/77 2250 11/11/77 2250	0:44 370 39.84N 0:49 370 40.02N 0:54 370 40.19N 0:59 370 40.35N 1:04 370 40.50N	117.13W -56047 115.31W -55028 113.49W -57022 112.57W -58043 111.65W -58108 110.73W -58025 109.82W -58013 107.93W -57024 106.04W -58013 104.17W -58081 101.32W -58018 100.36W -58016	11/11/77 2300 2:04 370 41.73N 11/11/77 2310 2:14 370 41.83N 11/11/77 2320 2:24 370 41.93N 11/11/77 2330 2:34 370 42.00N 11/11/77 2341 2:45 410 42.03N 11/11/77 2346 2:50 410 42.04N 11/11/77 2355 2:59 410 42.03N 11/12/77 0000 3:04 410 42.02N 11/12/77 0010 3:14 410 41.97N 11/12/77 0021 3:25 410 41.99N 11/12/77 0031 3:35 410 41.99N 11/12/77 0040 3:44 410 41.95N	98.51W -62065 96.56W -64029 94.70W -60063 92.88W -55044 90.99W -48127 90.03W -49139 88.09W -45217 87.11W -46234 85.16W -44204 83.16W -44157 81.24W -42133 81.21W -42133 79.28W -41139 78.29W -41175
11/11/// 2235	1.24 3/0 41.6/N	99.43W -61075	11/j2/77 0046 3:50 410 41.91N 11/j2/77 0055 3:59 400 41.57N	76.47W -43174

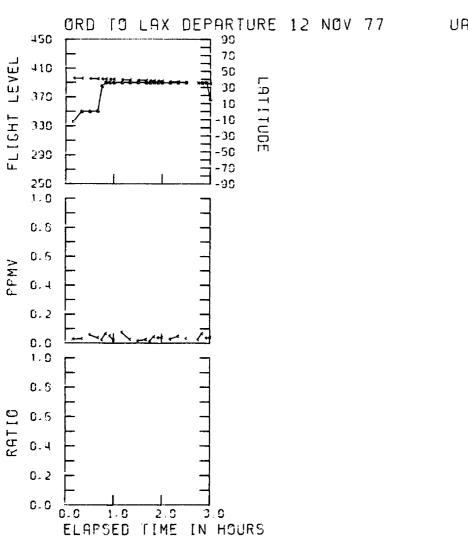


JFK TO ORD (PAGE 1 OF 1) DEPARTURE: 12 NOV 77 AIRCRAFT: UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .233 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 9
DATA SOURCE: GASP TAPE VL014, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMR.	MO/na/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE (PPMV) RATIO (C) CABIN AMB.
11/12/77 0339 11/12/77 0349 11/12/77 0359 11/12/77 0409	0:10 360 40.38N 0:20 390 40.56N 0:30 390 40.77N 0:40 390 40.96N	76.02W -45081 77.57W -43161 79.17W -44161 80.79W -41198	11/12/77 0414 0:45 390 41.05N 11/12/77 0419 0:50 390 41.13N 11/12/77 0424 0:55 390 41.21N 11/12/77 0429 1:00 390 41.28N 11/12/77 0439 1:10 375 41.40N	81.60W -43224 82.42W -41217 83.27W -41152 84.08W -44206 85.72W -46233

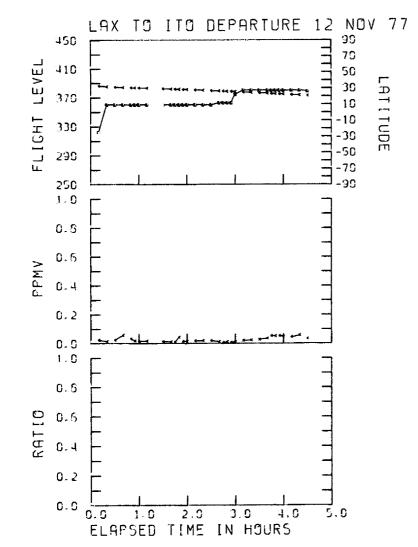




UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .076 RATIO (LIMITÉN TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 27
DATA SOURCE: GASP TAPE VL014, FILE 2

MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV (C) CABIN AME		GMT ETIM HR:MN		LONG TEMP	OZONE(PPMV) RATIO CABIN AMB.
11/12/77 1507 11/12/77 1517 11/12/77 1527 11/12/77 1537 11/12/77 1542 11/12/77 1547 11/12/77 1552 11/12/77 1607 11/12/77 1617 11/12/77 1627	1:00 390 39.92N 1:10 390 39.58N 1:20 390 39.21N	95.56W -55038 96.35W -62023 97.14W -61067 97.91W -62051 98.67W -61022 100.20W -60076 101.74W -61027	11/12/77 11/12/77 11/12/77 11/12/77 11/12/77 11/12/77 11/12/77 11/12/77 11/12/77	1642 1:45 1647 1:50 1652 1:55 1657 2:00 1707 2:10 1717 2:20 1727 2:30 1742 2:45 1747 2:50 1752 2:55	390 38.01N 390 37.79N 390 37.58N 390 37.14N 390 36.68N 390 35.43N 390 35.43N 390 35.17N 390 34.90N	105.49W -60. 106.23W -59. 106.97W -58.	.016 .045 .038 .040 .028 .048 .033 .026 .066

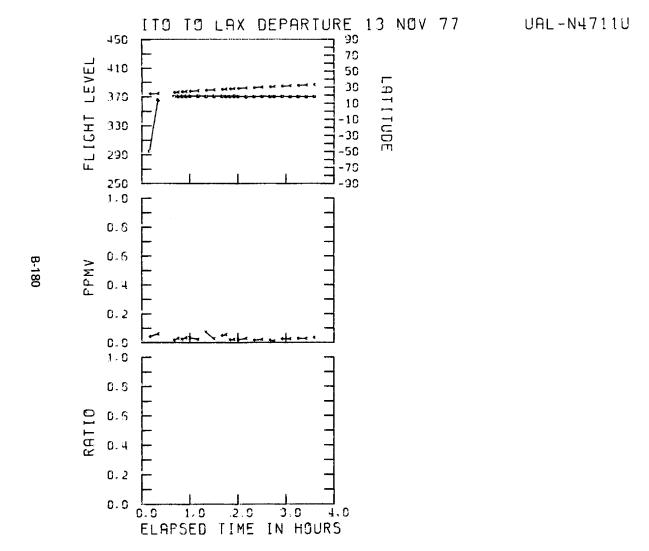


В-178

UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE: .058 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) - .00 TOTAL OBS IN CABIN: 33 DATA SOURCE: GASP TAPE VL014, FILE 2

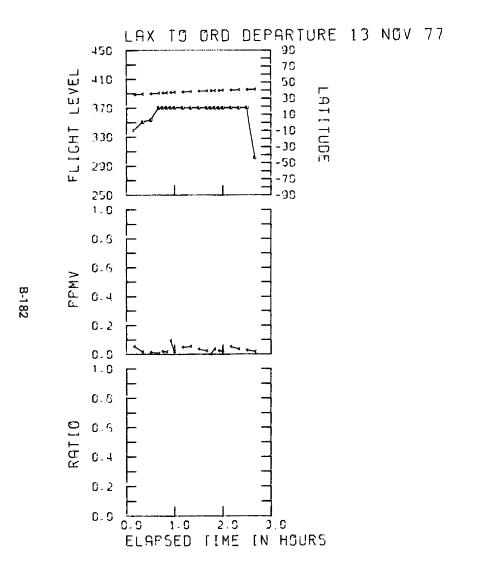
MO/DA/YR GMT	ETIM FL LAT HR:MN		ZONE(PPMV) RATIO ABIN AMB•	MO/na/YR GMT	ETIM FL LAT HR:MN	LONG TEMP (C)	OZONE(PPMV) RATIO CABIN AMB.
11/12/77 2048 11/12/77 2058 11/12/77 2108 11/12/77 2118 11/12/77 2128 11/12/77 2133 11/12/77 2138 11/12/77 2148 11/12/77 2218 11/12/77 2218 11/12/77 2223 11/12/77 2223 11/12/77 2233 11/12/77 2238 11/12/77 2248 11/12/77 2248 11/12/77 2258	0:10 322 32.61N 0:20 360 31.93N 0:30 360 30.86N 0:40 360 30.86N 0:50 360 30.53N 0:55 360 30.36N 1:00 360 30.20N 1:10 360 29.86N 1:30 360 29.17N 1:40 360 28.62N 1:50 360 28.43N 1:55 360 28.43N 1:55 360 28.24N 2:00 360 28.04N 2:10 360 27.63N 2:20 360 27.21N	122.11W -57. 123.34W -54. 124.70W -55. 126.08W -54. 126.76W -54. 127.44W -54. 131.28W -54. 132.53W -54. 133.14W -53. 133.76W -53. 134.98W -54. 136.22W -54.	.024 .014 .026 .058 .033 .019 .015 .017 .013 .011 .011 .044 .014 .013 .018	11/12/77 2308 11/12/77 2318 11/12/77 2323 11/12/77 2328 11/12/77 2338 11/12/77 2348 11/12/77 2348 11/12/77 2359 11/12/77 0008 11/13/77 0018 11/13/77 0028 11/13/77 0038 11/13/77 0038 11/13/77 0048 11/13/77 0058 11/13/77 0068 11/13/77 0068 11/13/77 0108	2:30 360 26.76N 2:40 363 26.31N 2:45 363 26.07N 2:50 363 25.83N 2:55 363 25.59N 3:00 375 25.34N 3:10 380 24.85N 3:20 380 24.34N 3:30 380 23.84N 3:45 380 23.84N 3:55 380 22.79N 3:55 380 22.53N 4:00 380 22.26N 4:10 380 21.72N 4:20 380 21.18N 4:30 379 20.63N	138.75W -54. 140.01W -55. 140.65W -55. 141.30W -55. 141.94W -55. 142.58W -56. 143.83W -56. 145.06W -55. 147.44W -55. 148.03W -54. 148.63W -55. 149.22W -54. 149.82W -55. 150.99W -55. 152.14W -55.	.012 .006 .011 .007 .011 .021 .023 .028 .035 .053 .051 .053



ITO TO LAX (PAGE 1 OF 1) DEPARTURE: 13 NOV 77 AIRCRAFT: UAL-N4/110

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .075 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 25 DATA SOURCE: GASP TAPE VL014, FILE 2

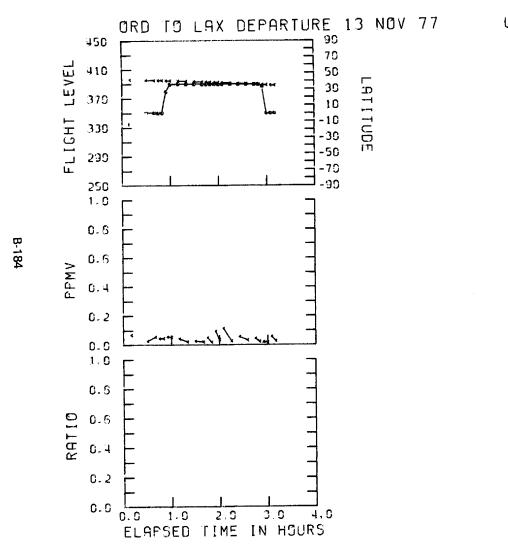
MO/DA/YR GMT	ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATION (C) CABIN AMB.	) MO/DA/YR GMT ETIM FL LAT HR:MN	LONG TEMP OZONE(PPMV) RATIO (C) CABIN AMB.
11/13/77 0308 11/13/77 0318 11/13/77 0338 11/13/77 0343 11/13/77 0353 11/13/77 0358 11/13/77 0408 11/13/77 0418 11/13/77 0428 11/13/77 0438 11/13/77 0443	0:20 365 22.32N 0:40 370 23.63N 0:45 370 23.95N 0:50 371 24.28N 0:55 371 24.61N 1:00 371 24.93N 1:10 371 25.56N 1:20 371 26.17N 1:30 371 26.76N 1:40 371 27.34N	153.22W -35043 151.94W -51062 149.20W -53018 148.49W -53031 147.77W -53024 147.05W -53034 146.31W -54034 144.84W -55023 143.38W -56075 141.88W -57028 140.38W -57050 139.62W -56056	11/13/77 0453 1:55 371 28.20N 11/13/77 0458 2:00 370 28.48N 11/13/77 0508 2:10 370 29.02N 11/13/77 0518 2:20 370 29.56N 11/13/77 0528 2:30 370 30.08N 11/13/77 0543 2:40 370 30.59N 11/13/77 0543 2:45 371 30.83N 11/13/77 0553 2:55 371 31.31N 11/13/77 0603 3:05 370 31.76N 11/13/77 0613 3:15 370 32.18N 11/13/77 0623 3:25 370 32.71N	138.85W -56020 138.06W -56022 137.27W -57020 135.66W -57029 134.02W -57017 132.33W -57023 130.60W -57017 129.72W -57010 127.94W -57026 126.14W -57026 124.35W -57029 122.62W -57029 120.91W -56036



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MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .096 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 20 DATA SOURCE: GASP TAPE VL014, FILE 2

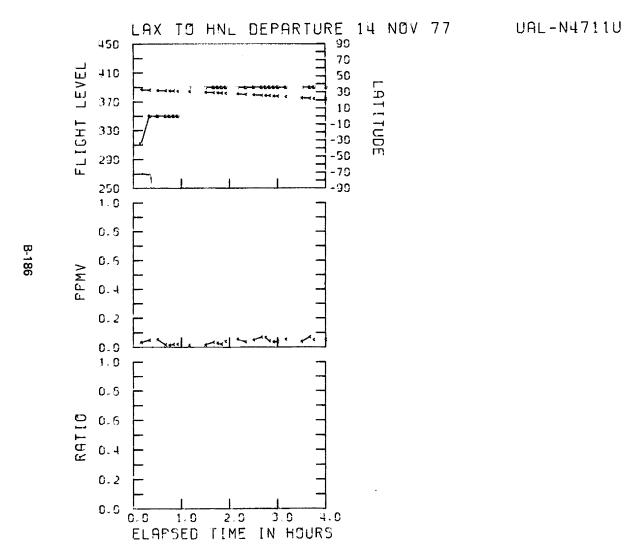
MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB	
11/13/77	0901	0:10	339	34.82N	116.43W	51.	.056	11/13/77	1021	1:30	370	38.91N	102.95W	-56.	.037	
11/13/77	0911	0:20	351	35.42N	114.81W	-54.	.016	11/13/77	1031	1:40	370	39.31N	101.18W	-54.	.024	
11/13/77	0921	0:30	353	35.99N	113.17W	<b>-55</b> •	.014	11/13/77	1036	1:45	370	39.50N	100.28W	-54.	.001	
11/13/77	0931	0:40	370	36.55N	111.50W	-57.	•006	11/13/77	1041	1:50	370	39.68N	99.38W	-54.	.036	
11/13/77	0936	0:45	370	36.81N	110.67W	-58	.020	1/13/77	1046	1:55	370	39.85N	98.47W	-56.	.024	
11/13/77	0941	0:50	370	37.07N	109.84W	-59.	.018	1/13/77	1051	2:00	370	40.02N	97.56₩	-55.	.024	
11/13/77	0946	0:55	370	37.32N	109.00W	-57.	.096	11/13/77	1101	2:10	370	40.34N	95.72W	-55.	•053	
11/13/77	0951	1:00	370	37.56N	108.15W	-58.	.020	11/13/77	1111	2:20	370	40.63N	93.86W	-55.	.036	
11/13/77	1001	1:10	370	38.04N	106.43W	-58.	•050	11/13/77	1121	2:30	371	40.88N	91.99W	-56.	.028	
11/13/77	1011	1:20	370	38.49N	104.69W	~56•	• 055	11/13/77	1131	2:40	302	41.10N	90.10W	-45.	.017	



UAL-N4711U

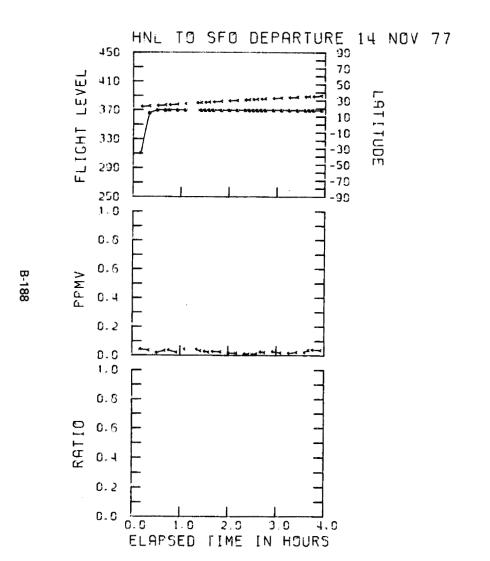
MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .113 RATIO (LIMITED TO AMB. OZONE ABOVE 0.1) = .00 TOTAL OBS IN CABIN: 25 DATA SOURCE: GASP TAPE VL014, FILE 2

MO/DA/YR G	T ETIM HR:MN	FL	LAT	LONG		OZONE(PPMV) RATIO CABIN AMB.	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG		OZONE (PPMV) CABIN AMB.	RATIO
11/13/77 194 11/13/77 204 11/13/77 205 11/13/77 205 11/13/77 205 11/13/77 205 11/13/77 206 11/13/77 206 11/13/77 206 11/13/77 216 11/13/77 216 11/13/77 216	5 0:30 5 0:40 0:45 0:50 0:55 1:00 5 1:20 1:30 5 1:40	350 351 350 350 379 390 390 390 390	41.59N 41.10N 40.83N 40.68N 40.53N 40.37N 40.22N 39.87N 39.50N 39.11N 38.71N 38.50N	90.76W 93.99W 95.60W 96.39W 97.17W 97.96W 98.70W 100.28W 101.86W 104.93W 105.67W	-50. -55. -57. -58. -60. -60. -59. -61. -63.	.028 .057 .046 .046 .058 .056 .044 .022 .027	11/13/77 11/13/77 11/13/77 11/13/77 11/13/77 11/13/77 11/13/77 11/13/77 11/13/77 11/13/77	2130 2135 2140 2150 2200 2210 2220 2225 2230 2235 2240	1:55 2:00 2:05 2:15 2:25 2:35 2:45 2:55 3:00	390 390 390 390 390 390 390 390 350	38.07N 37.85N 37.64N 37.20N 36.75N 36.24N 35.71N 35.44N 35.17N 34.89N 34.61N	106.42W 107.16W 107.86W 108.56W 109.92W 111.26W 112.51W 113.75W 114.96W 115.57W 116.18W	-62. -63. -64. -63. -63. -63. -63. -53.	.093 .037 .113 .028 .058 .033 .045 .023 .021 .018	
							11/13/77	2245	2:10	320	34.32N	116.78W	-54.	.027	



MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .070 RATIO (LIMITEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 26 DATA SOURCE: GASP TAPE VL014, FILE 2

MO/DA/YR GM	ETIM HR:MN		LAT	LONG		OZONE (PPM) CABIN AME	MO/DA/YR	GMT	ETIM HR:MN	FL	LAT	LONG	TEMP	OZONE ( CABIN	 RATIO
11/14/77 004				121.05W		-	11/14/77					139.36W			
11/14/77 005	0:20	350	32.54N	122.73W	-49.	.049	11/14/77	0257	2:21	390	27.12N	140.95W	-58.	.037	
11/14/77 010	0:30	350	32.20N	124.28W	-54.	.054	11/14/77	0307	2:31	390	26.54N	142.46W	~58.	.050	
11/14/77 011	0:41	350	31.84N	125.79W	-55.	.018	11/14/77	0317	2:41	390	25.94N	143.95W	<b>~57.</b>	.069	
11/14/77 012	0:46	350	31.67N	126.51W	-55.	.016	11/14/77	0322	2:46	390	25.64N	144.68W	<del>-</del> 56∙	.067	
11/14/77 012	0:51	350	31.48N	127.24W	-55.	.020	11/14/77	0327	2:51	390	25.33N	145.39W	~57.	.042	
11/14/77 013	0:56	350	31.29N	127.99W	-54.	.022	11/14/77	0332	2:56	390	25.03N	146.10W	-57.	.037	
11/14/77 014	1:10	390	30.65N	130.36W	-58.	.015	11/14/77	0337	3:01	390	24.72N	146.80W	-57.	.040	
11/14/77 020	1:30	390	29.76N	133.38W	-59.	.017	11/14/77	0347	3:11	390	24.09N	148.20W	-56.	.054	
11/14/77 021	7 1:41	390	29.28N	134.91W	-58.	.034	11/14/77	0407	3:31	390	22.78N	150.98W	<del>-</del> 55.	.039	
11/14/77 022	2 1:46	390	29.03N	135.65W	-59.	.029	11/14/77	0417	3:41	390	22.11N	152.35W	-54.	.076	
11/14/77 022	7 1:51	390	28.79N	136.38W	-58.	.022	11/14/77	0422	3:46	390	21.77N	153.03W	-53.	.051	
11/14/77 023	2 1:56	390	28.53N	137.12W	-58.	.040	11/14/77	0437	4:01	390	21.21N	155.22W	~55∙	.051	



UAL-N4711U

MAXIMUM VALUES: AMBIENT OZONE=\*\*\*\*\* CABIN OZONE= .044 RATIO (LIMÎTEN TO AMB. OZONE ABOVE 0.1)= .00 TOTAL OBS IN CABIN: 29
DATA SOURCE: GASP TAPE VL014, FILE 2

MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPM HR:MN (C) CABIN AM	MV) RATIO MO/DA/YR GMT ETIM FL LAT LONG TEMP OZONE(PPMV) RATIO MB. (C) CABIN AMB.
11/14/77 2020 0:10 311 22.20N 155.95W -41044 11/14/77 2030 0:20 366 22.82N 154.93W -49036 11/14/77 2040 0:30 370 23.48N 153.85W -50019 11/14/77 2050 0:40 370 24.18N 152.70W -50034 11/14/77 2056 0:46 370 24.56N 152.06W -51038 11/14/77 2106 0:56 370 25.25N 150.87W -51022 11/14/77 2116 1:06 370 25.95N 149.62W -53044 11/14/77 2131 1:21 370 26.99N 147.69W -54044 11/14/77 2131 1:26 370 27.33N 147.04W -53032 11/14/77 2141 1:31 370 27.66N 146.39W -53029 11/14/77 2146 1:36 370 28.00N 145.74W -52023 11/14/77 2151 1:41 370 28.33N 145.08W -53028 11/14/77 2201 1:51 369 28.98N 143.76W -54025 11/14/77 2211 2:01 370 29.59N 142.48W -54017	11/14/77 2221

## APPENDIX C

SUMMARY TABULATIONS OF

GASP OZONE DATA

FOR BOEING 747SP (N533PA)

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DATE	ROUTE	FL																- 1
			i	H								•			•	RAMB	,	1
			ND	TOTAL	03>.1	03>.3	MEAN	M+SD	MAX	2HR	ND	MEAN	M+SD	MAX	N D	MEAN	SD	
1/21/77	JFK-HND	380.	0	:00							96	.471	-748	1.116	0			
1/22/77	HND-LAX	405.	ő	:00							61	. 416	.589	.757	0			
1/22/77	LAX-HND	386.	0	:00							80	.545		1.308	Ō			
1/23/77	HND-JFK	387.	ŏ	:00							85	.489	.596	. 862	ō			
1/25/77	JFK-BAH	386.	ő	:00							38	.296	.452	.578	Õ			
1/28/77	JFK-HND	375.	0	:00							2	.043	.044	.044	ő			
1/29/77	HND-LAX	399.	ő	:00							60	.381	.535	645	ŏ			
1, 23, 1.	nno bun	3,,,,	J	• • •								•••		•				
3/22/77	JFK-BAH	375.	0	:00							90	.424	.700	1.350	0			
3/23/77	BAH-JFK	383.	0	:00							93	-414	.722	1.161	0			
3/24/77	JFK-HND	380.	0	:00							99	.530	.747	.999	0			
3/25/77	HND-LAX	388.	0	:00							51	.336	.669	1.049	0			
3/25/77	LAX-HND	346.	0	:00M							84			.781	0			
3/26/77	HND-JFK	343.	0	:00							80	.219	.341	.496	0			
3/27/77	JFK-GIG	357.	0	:00							9	.077	. 147	.266	0			
4/ 6/77	JFK-JFK	347.	23	1:54	1:18	: 39	.222	.413	.618	.222	0				0		?	•
4/ 6/77	JFK-HND	390.	99	12:35	8:10	3: 10	.219	.438	1.089	.328	0				0		?	•
4/ 7/77	HND-LAX	388.	65	8:10	5:20	1:25	. 183	. 302	-499	.277	0				0		?	•
4/ 7/77	LAX-HND	383.	80	9:50	6:25	2:45	.210	.390	.757	.487	0				0		?	•
4/ 8/77	HND-JFK	375.	84	11:05	4:20	1:25	- 141	.273	.558	. 199	0				0		?	•
4/ 9/77	JFK-GIG	363.	65	8:09	1:09	:09	.055	. 116	.313	.134	0				0		?	•
4/10/77	GIG-JFK	386.	65	8:10	1:20	1:00	.084	.201	.456	.242	0				0		?	•
4/10/77	JFK-HND	347.	9.3	12:31	9:31	8:16	. 326	.510	.616	.490	0				0		?	•
4/11/77	HND-LAX	366.	63	8:05	3:00	:30	.110	.207	.467	.235	0				0		?	•
4/11/77	LAX-HND	392.	78	10:15	3:45		.089	. 133	-217	.161	0				0		?	•
4/12/77	hnd-J <b>f</b> K	345.	78	11:09	6:59	4:14	.221	.388	.573	-424	0				0		?	•
4/13/77	JFK-HND	385.	99	12:35	9:19	:50	. 143	. 237	.545	. 233	0				0		?	
4/14/77	HND-LAX	365.	61	8:06	5:36	3:20	- 267	.457	.730	.527	0				0		?	•
4/14/77	LAX-HND	386.	8.3	10:40	6:20	3:10	.230	458	.794	.621	0				0		?	•
4/15/77	HND-JPK	376.	89	11:30	4:03	1:05	.110	. 221	.539	. 259	0				0		?	•
4/16/77	JFK-GIG	367.	62	8:01	:15		.036	.062	.138	.073	0				0		?	•
4/17/77	GIG-JFK	387.	67	8:29	1:30	:09	.057	. 127	.315	.162	0				0		?	•
4/17/77	JFK-HND	381.	101	13:19	8:22	6:57	.313	.551	.776	.646	0				0		?	•
4/18/77	H ND-L AX	401.	63	8:27	6:12	4:15	.295	.473	.596	.513	0				0		3	•
4/19/77	LAX-HND	394.	84	10:57	2:55	1:05	. 114	. 241	.620	.301	0				0		?	•
4/19/77	HND-JFK	373.	83	11:02	8:26	3:27	.275	.515	.840	.695	0				0		?	?

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APPENDIX C; PAGE 2 OF 11

DATE	ROUTE	PL	!															
			N D	TOTAL				M+SD		2HR		•			•	R AMB	•	ı
			n D	TOIKE	03/. 1	037.3	HEAN	עניה	MAX	21115	ND	MEAN	m + 3 D	MAX	N D	MEAN	SD	
4/20/77	JFK-HND	380.	90	12:41	10:21	7:04	.304	.479	.658	.584	0				0			?
4/21/77	HND-LAX	384.	60	8:12	7:07	2:00	.230	.354	<b>.</b> 559	.309	0				0			?
4/21/77	LAX-HND	388.	77	9:59	8:49	6:56	.414	.619	.732	.581	0				0			?
4/22/77	HND-JFK	367.	89	11:10	5:45	:55	. 128	.240	.516	.282	0				0			?
4/23/77	JFK-GIG	380.	52	6:50	1:00		.058	.124	. 241	.133	0				0			?
4/24/77	GIG-JFK	392.	66	8:33	:45		.042	.082	.198	.094	0				0			?
4/24/77	JFK-HND	370.	100	12:40	6:45	2:40	. 176	.327	.520	.378	0				0			?
4/25 <i>/77</i>	HND-JFK	382.	88	11:10	6:25	2:45	.203	.385	.700	.448	0				0			?
4/26/77	JFK-HND	357.	95	12:33	7:48	4:23	.251	458	,696	.560	95	.348	.633	.985	63	.721	<b>.</b> 168	?
4/27/77	HND-LAX	3 <b>7</b> 0.	61	7:31	5 <b>:</b> 37	2:30	.253	.407	.526	.370	61	.368	•593	.789	53	.702	.140	?
4/27/77	LAX-HND	373.	69	9:10	4:20	1:05	.134	.250	.477	.293	69	.442	.730	.966	5 <b>1</b>	. 363	.268	?
4/28/77	HND-JFK	360.	85	10:51	5:05	1:00	.135	-247	<ul><li>525</li></ul>	.296	85	.517	.770	.941	72	.277	.180	?
4/29/77	JFK-HND	372.	98	12:51	4:24	1:40	. 143	.303	.671	.487	98	.530	.837	1.104	83	.337	.289	?
4/30/77	HND-LAX	357.	65	8:11	3:59	2:20	<b>. 17</b> 9	.336	• 532	.412	64	.269	.514	.820	34	.651	.128	?
4/30/77	LAX-HND	389.	76	9:30	8:20	2:10	.220	.342	- 541	.415	76	.646	.864	1.091	74	.395	.253	?
5/ <b>1/77</b>	HND-JFK	385.	<b>7</b> 9	10:18	10:08	6:53	.394	.580	.741	.576	79	.631	.845	. 978	78	.626	-204	?
5/ 2 <b>/77</b>	JFK-DFW	400.	18	2:10	2:10		.216	.265	.289	.216	18	.299	.387	. 453	17	.697	.108	?
5/ 2/77	DFW-HNL	407.	52	6:43	5:33	1:55	.230	.398	.677	.470	53	.308	•526	.821	49	.736	. 126	?
5/ 3/77	HNL-PPG	396.	31	4:15			.021	.037	-058	.029	30	.036	.059	.098	0			
5/ 3/77	PPG-PPT	380.	17	2:07			.019	.029	-041	.020	17	.030	.041	.074	0			?
5/ 3 <i>/77</i>	PPT-PPG	419.	18	2:20			.018	.021	.023	.018	18	.036	.043	.047	0			?
5/ 3/77	PPG-HNL	402.	18	4:15			.017	.022	.033	.023	32	.040	.057	.108	1	.306		
5/ 4/77	NHL-DFW	378.	45	6:02	:55		.072	.109	-192	.096	44	.103	.164	.380	19	.658	. 167	
5/ 4/77	DFW-JFK	407.	15	1:55	1:10		. 154	.238	.255	.154	15	.249	.387	. 469	12	.631	.102	
5/ 4/77	JFK-SFO	413.	40	4:55	4:14	1:00	.203	.314	.539	. 294	40	.294	.469	.702	35	.683	.109	
5/ 5/77	SFO-AKL	376.	93	11:52	:35		.044	.079	.221	.096	92	.075	.139	.371	26	.544	.104	?
5/ 5 <i>/</i> 77	AKL-SYD	378.	19	2:20			.053	.068	.111	.054	<b>1</b> 9	.089	. 113	. 189	3	.591	.018	
5/ 6/ <b>7</b> 7	SYD-AKL	392.	13	1:40			-060	.078	.092	.060	13	.099	.122	. 124	6	.547	.163	
5/ 6/77	AKL-SFO	380.	84	10:40	1:40	1:00	.080	.224	.645	.293	85	.130	.336	.865	22	.695	.411	?
5/ 8/77	SFO-JFK	380.	34	4:34	3:42	1:36	.250	.398	.501	.294	32	.376	•559	.656	31	.741	. 106	
5/ 9 <i>/</i> 77	JFK-DFW	411.	15	2:15	1:15	:10	. 157	.316	.667	. 167	15	.480	.758	1.036	14	.337	. 171	?
5/ 9/77	DFW-HNL	403.	56	7:19	5:43	1:10	.217	.356	.551	-402	57	.258	. 441	.734	49	.869	. 171	?
5/10/77	HNL-PPG	395.	34	4:32			.029	.047	.079	.035	36	.028	.041	.055	0			?
5/10/77	PPG-PPT	396.	14	2:00			.015	.020	.031	.015	13	.029	.038	.041	0			?
5/10/77	PPT-PPG	414.	18	2:21	:10		.032	.060	. 134	.037	16	.039	.051	.075	0			?

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SOURCE: GASP TAPE VL0010

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DATE	ROUTE	FI.					OZONE-			•		MBIENT	OZONE	1		,		-1
			1	1H	OURS: MI			D D W				•		1	•	R AMB	,	i
			ND	TOTAL	03>.1	03>.3	MEAN	M+SD	MAX	2HB	ND	MEAN	M+SD	MAX	ND	MEAN	SD	
5/10/77	PPG-HNL	404.	32	4:05	:05		.023	.042	.143	.024	32	.032	.042	.067	0			
5/11/77	HNL-DFW	389.	45	5:50	4:10	: 55	.182	.316	.541	.305	45	.223	.391	.619	34	.841	.248	?
5/11/77	DFW-JFK	392.	16	2:00	1:10		.094	.140	.156	.094	16	.349	.562	.640	15	.298	. 167	?
5/13/77	JFK-LHR	385.	42	5:15	5:15	4:40	.403	.511	• 552	.479	42	.562	.666	.777	42	.706	. 177	В
5/14/77	LHR-AMS	246.	1	:00			.064		.064	.064	1	.080		.080	0			
5/14/77	AMS-LHR	249.	1	:00			.036		.036	.036	1	.071		.071	0			
5/14/77	LHR-JFK	395.	48	6:00	4:30	3:00	.303	.507	.612	-522	48	.533	•659	.772	47	.520	.329	В
5/15/77	JFK-LHR	364.	40	5:15	4:50	3:05	.304	.453	.532	. 444	40	.336	.512	.670	40	.951	.311	
5/15/77	LHR-AMS	232.	1	:00			-085		.085	.085	1	.097		.097	0			
5/15/77	AMS-LHR	253.	1	:00			.050		.050	.050	1	.086		.086	0			
5/15/77	LHR-JFK	387.	49	6:00	6:00	4:45	.412	.516	.558	.494	49	.418	. 547	.728	48	.996	.168	
5/16/77	JFK-DFW	402.	4	:40			.070	.087	- 100	.070	4	.086	.091	- 104	1	.962		
5/16/77	DFW-HNL	386.	25	7:01	3:26		.128	.195	.261	.218	25	. 133	.188	.223	15	.931	.330	
5/17/7 <i>1</i>	HNL-PPG	387.	4	2:15	:45		.038	.080	<b>-1</b> 32	.070	4	.037	.045	- 047	0			
5/17/77	PPT-PPG	408.	7	1:45			.046	.065	.077	-046	7	.058	.088	. 104	2	.702	.039	
5/17/77	PPG-HNL	393.	10	3:15			.032	.048	.063	.038	10	.022	.041	.058	0			
5/18/77	HNL-DFW	399.	11	3:35	3:35		. 226	.275	.292	.246	11	.248	.284	.296	11	.893	.112	
5/18/77	DFW-JFK	376.	3	1:20	:10		.139	.204	.210	.139	3	.127	. 195	.216	2	1.019	.047	
5/18/77	JFK-SFO	390.	8	3:00	1:55	1:20	.260	.489	.596	.348	8	.297	.568	.723	5	.801	.178	
5/19/77	SFO-AKL	362.	31	11:37			.033	.048	.098	.062	31	.052	.070	.103	1	.728		
5/19/77	AKL-SYD	406.	7	1:40	1:30		.096	.143	.146	.096	7	. 129	.187	. 190	4	.775	.048	
5/20/77	SYD-AKL	369.	0	:00							8	.140	.170	.169	0			
5/20/77	AKL-SFO	367.	33	10:25			.028	.043	.088	.043	34	-047	.069	.146	2	.702	.120	
5/21/77	SFO-AKL	375.	47	11:30	:05		.033	.052	.110	.055	47	.048	.067	<b>. 1</b> 25	1	.600		
5/21/77	AKL-SYD	373.	4	1:10			.071	.085	.088	.071	4	.093	.142	. 142	1	.620		
5/22/77	SYD-SFO	371.	35	12:01	2:05		.050	.093	.166	. 115	34	.067	.116	.201	5	.769	. 163	
5/22/77	SFO-JFK	368.	16	3:46	2:21		. 109	. 161	.207	-140	16	.122	. 172	.223	8	.891	.153	
5/23/77	JFK-BAH	381.	49	10:35	9:00	2:35	.240	.364	.533	.424	49	.304	.461	.655	46	.791	.124	
5/25/77	BAH-JFK	375.	5 <b>1</b>	12:07	6:00	3:25	. 188	.364	.566	.526	51	.351	.568	.673	41	.546	.309	В
5/26/77	BOS-LHR	393.	20	5:05	4:05	4:05	.341	.458	.509	.393	20	.536	.634	<b>.7</b> 53	20	.659	. 198	В
5/27/77	LHR-BOS	382.	13	2:50	2:50	2:50	. 4.38	.500	.565	.459	13	.467	.540	.599	13	.941	.102	
5/28/77	BOS-LHR	369.	3	:55	:55		.163	.256	.284	.163	3	.188	.298	.339	2	.851	.014	
5/28/77	LHR-BOS	389.	16	3:35	3:35	2:55	.394	.480	.482	.433	17	.403	.515	.536	16	.953	. 126	
5/28/77	BOS-DTW	334.	2	:10			.078	.091	.091	.078	3	.088	.123	. 124	1	.734		
5/28/77	DTW-BOS	360.	3	:40	:35		. 147	.218	.218	. 147	3	.198	.264	. 263	2	.679	. 150	
5/29/77	BOS-LHR	368.	5	2:00	2:00	1:05	.375	.501	.509	.375	5	.402	.525	.529	5	.911	. 120	

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SOURCE: GASP TAPE VL0010

APPENDIX C: PAGE 4 OF 11

DATE	ROUTE	FL												•		•	BIENT
			1	H		•		PPM		-		1		•	•	R AMB	
			N D	TOTAL	03>.1	03>.3	MEAN	M+SD	MAX	2 H R	ND	MEAN	M+SD	MAX	N D	MEAN	SD
5/29/77	LHR-BOS	397.	18	3:35	3:35	3:25	.440	.518	.551	.457	18	.463	.560	. 574	17	.962	.096
5/30/77	JFK-LHR	391.	1.3	3:25	3:25	2:15	.295	.405	.437	.336	0				0		
5/31/77	BRU-LHR	241.	1	:00			.029		.029	.029	1	.096		.096	0		
5/31/77	LHR-JFK	404.	26	5:25	4:00	2:55	. 288	.446	.634	.431	26	.431	.566	<b>. 7</b> 56	26	.665	.250 B
6/ 1/77	JFK-HND	393.	72	11:20	8:04	2:46	. 183	.320	.475	.423	72	.366	.545	.608	54	.496	.269 в
6/ 2/77	HND-JFK	381.	68	11:50	7:35	4:47	.213	.357	.429	.387	68	.332	. 473	.547	60	.691	.302 B
6/ 3/77	JFK-HND	387.	109	12:59	6:03	4:35	. 192	. 371	.531	.454	110	. 271	.478	.633	82	.602	.268 B
6/ 4/77	HND-LAX	388.	63	8:50	3:10	1:15	. 126	.259	.447	.297	62	.198	.383	.559	30	.642	.215 B
6/ 4/77	LAX-SEA	363.	8	1:00			.031	.038	.038	.031	8	.045	.060	.064	0		
6/ 9/77	SEA-SFO	369.	11	1:32	1:10	:20	. 249	. 344	.391	.249	11	.354	495	.489	9	.708	.120 B
6/10/77	SFO-LHR	389.	62	8:34	7:13	5:05	.292	.444	.486	.425	62	.437	.661	.714	53	.673	.127
6/10/77	LHR-SEA	394.	60	8:03	4:38	: 15	.109	. 178	.442	.139	60	.509	.683	.742	60	. 235	.147 B
6/11/77	SEA-LHR	395.	55	7:45	6:55	5:00	.303	.432	.464	.419	5 <b>5</b>	.430	.614	. 667	51	.711	-108
6/11/77	LHR-SFO	386.	67	9:17	7:47	4:52	.278	.400	. 449	.402	68	.434	.571	.619	65	.630	.222 B
6/12/77	SFO-LHR	392.	63	8:32	7:17	2:30	.225	.330	.435	.320	63	. 334	.465	.584	58	.678	. 164
6/12/77	LHR-SEA	398.	62	8:11	5:19	:10	.113	.162	.353	.129	62	. 421	.541	.572	6 <b>1</b>	.275	.116 B
6/13/77	SEA-LHR	381.	60	8:11	7:40	4:55	.319	.433	.500	.437	56	.389	.514	. 595	54	.848	. 197
6/13/77	LHR-SFO	393.	73	9:20	9:15	2:20	.222	.319	.442	.349	73	.479	.595	.671	72	478	-199 B
6/14/77	SFO-LHR	377.	64	8:50	5:10	: 05	.121	.186	.314	.153	63	.326	. 475	.570	53	.370	.199 B
6/14/77	LHR-SFO	387.	70	9:20	7:25	2:30	- 198	.313	.421	.339	71	.435	.578	.665	68	472	.205 B
6/15/77	SFO-LHR	383.	64	8:49	6:15	1:15	.174	.275	.366	.311	64	.310	.467	.609	53	.542	.225 B
6/15/77	LHP-SFO	389.	69	9:20	6:00	:30	.124	.183	.313	.182	69	.401	.536	.600	68	.370	.190 B
6/17/77	SFO-LHR	393.	67	8:50	5:10	2:50	. 183	.303	.378	.342	67	.470	-660	.730	62	.372	.190 B
6/17/77	LHR-SEA	385.	65	8:15	4:45	1:50	.175	.278	.376	.318	66	.549	.686	.718	65	.352	.216 B
6/18/77	SEA-LHR	373.	63	7:55	6:30	2:40	. 214	.320	.385	. 341	63	.489	.679	.690	58	.441	.166 B
6/18/77	LHR-SFO	394.	72	9:05	4:55	:30	.139	.209	.339	.196	72	.475	.636	.724	72	.355	.230 B
6/19/77	SFO-LHR	390.	65	8:55	5:10	1:00	.172	.282	.330	.292	65	.464	.653	.690	64	.365	.183 B
6/19/77	LHR-SEA	400.	39	:00M					. 392		39			.795	39	.435	.167 B
6/20/77	SEA-LHR	385.	45	6:00	4:10		. 123	.162	.301	. 147	47	.550	.683	.667	42	.229	.069 B
6/20/77	LHR-SFO	386.	74	9:15	4:50	: 30	. 126	. 226	.323	.250	75	.458	.643	.696	68	. 322	.249 B
6/21/77	SFO-LHR	389.	62	9:13	4:25	:30	.141	.231	. 341	.275	62	. 446	.649	.780	54	. 374	.309 B
6/21/77	LHR-SEA	398.	60	8:10	4:55	:20	.152	.231	.308	.252	61	490	.655	.743	60	.341	.181 B
6/22/77	SEA-LHR	392.	60	7:55	3:35		.087	.115	.125	.109	60	.492	.694	.787	54	.201	.121 B
6/22/77	LHR-SFO	383.	72	9:18	3:08		.110	.178	.298	.183	72	.433	.645	.683	66	.294	.179 B
6/24/77	SFO-LHR	381.	70	9:00	6:30	2:40	. 201	.310	.360	.322	0				Ö		

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APPENDIX C; PAGE 5 OF 11

DATE	ROUTE	FL																
		i		•	OURS: MI	•						1		-	•	R AMB	•	I
			N D	TOTAL	03>.1	03>.3	MEAN	M+SD	MAX	2HR	ND	MEAN	M+SD	MAX	N D	MEAN	SD	
6/24/77	LHR-SEA	381.	61	8:15	4:34	1:00	.132	.223	.372	-255	0				0			В
6/25/77	SEA-LHR	390.	60	7:35	6:00	2:50	.230	.330	.370	.332	56	.485	.649	.704	54	.523	. 195	В
6/25/77	LHR-SPO	384.	71	9:25	2:55	1:20	.118	.209	.337	.270	53	.515	.610	.633	53	.259	. 178	В
6/26/77	SFO-LHR	383.	66	8:34	4:15		. 107	.156	.271	.148	0				0			В
6/26/77	LHR-SEA	400.	59	8:08	4:43	2:20	.185	.309	.399	.359	0				0			В
6/27/77	SEA-LHR	391.	61	7:41	7:31	2:22	.277	.338	.357	.300	0				0			
6/27/77	LHR-SPO	380.	74	9:30	3:50	:35	. 125	.213	.358	.274	Õ				Ō			В
6/28/77	SFO-LHR	382.	63	8:45	4:25	: 05	.133	.218	.303	.266	0				0			В
6/28/77	LHR-SEA	385.	62	8:15	4:50	1:00	. 144	.230	.321	.276	0				0			В
6/29/77	SEA-LHR	393.	58	7:35	3:55	:20	.143	.226	.311	. 264	0				0			В
6/29/77	LHR-SFO	384.	69	9:06	2:10		. 100	. 153	.292	.172	0				0			В
6/30/77	SFO-AKL	369.	92	11:50	:10		.035	.055	. 119	.054	0				0			
6/30/77	AKL-SYD	408.	20	2:21	2:01	:40	. 244	.375	.475	.272	0				0			
·																		
7/ 1/77	SYD-AKL	355.	7	:50	:50		.246	.287	.296	-246	0			·	0			
7/ 1/77	AKL-SFO	385.	76	11:03	:15		.036	.059	.116	.068	0				0			
7/ 2/77	SFO-AKL	366.	89	11:16	:30		.036	.061	. 146	.073	0				0			
7/ 2/77	AKL-SYD	416.	17	2:10	2:05		. 189	. 252	.281	.196	0				0			
7/ 3/77	SYD-SFO	391.	99	12:50			.042	.064	.095	.075	0				0			
7/ 3/77	SFO-JFK	397.	33	3:57	:15		.049	.074	.132	.059	0				0			
7/ 4/77	JFK-HND	391.	94	12:08	2:30	: 10	.098	.157	.301	. 193	0				0			В
7/ 5/77	HND-LAX	390.	56	8:40	2:55		.087	. 123	. 158	.136	0				0			В
7/ 5/77	LAX-HND	385.	79	10:06	7:50	: 15	. 187	.270	.383	.258	0				0			
7/ 6/77	HND-JFK	381.	89	11:36	6:00	:05	. 143	.233	.302	.247	0				0			
7/ 7/77	JFK-CPH	397.	46	6:17	5:57	1:10	.223	.303	.356	.316	0				0			
7/ 7/77	CPH-JFK	405.	50	6:36	5:57		.207	. 273	.325	-247	0				0			
7/ 8/77	JFK-HND	375.	82	11:35	4:20		.076	. 142	.200	. 156	8 <b>7</b>	.374	.544	.571	70	. 210	. 150	В
7/ 9/77	HND-LAX	393.	67	8:48	2:18		.069	.140	.270	. 140	70	. 174	.316	.536	39	.379	.187	
7/ 9/77	LAX-HND	375.	75	9:51	1:20		.035	.080	. 194	.110	<b>7</b> 5	. 140	.248	. 451	30	.310	.167	
7/10/77	HND-JFK	376.	83	11:23	6:00		. 117	.211	.293	.217	85	.315	.518	• 593	62	.407	.178	В
7/11/77	JFK-CPH	366.	46	6:15	4:00	: 30	-142	.251	.330	. 258	46	.306	.505	.555	32	.500	. 151	
7/11/77	CPH-JFK	385.	51	6:38	3:55	1:40	. 177	.299	.363	.324	53	.330	.538	.630	41	.528	.205	
7/11/77	JFK-BAH	388.	75	11:06	3:55		.087	. 169	- 257	.186	75	.214	.380	.558	46	.453	. 188	
7/12/77	BAH-JFK	380.	9.1	12:00	4:55	: 10	.097	.186	.310	.248	92	.248	.421	.604	65	.393	. 159	
7/14/77	JFK-HND	352.	93	12:09	7:15	1:00	. 163	.272	.357	.309	93	.306	.487	.568	71	.547	. 153	
7/15/77	HND-JFK	376.	79	10:56	3:00	: 05	.066	.134	.310	. 140	79	. 156	.277	.511	48	. 456	. 176	

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APPENDIX C: PAGE 6 OF 11

DATE	ROUTE	PL									<b>-</b> A			•			BIENT
		(		1H(							W.D.			•	•	R AMB	
			ND	TOTAL	032.1	032.3	MEAN	M+SD	MAX	2HR	ИĎ	MEAN	M+SD	MAX	ND	MEAN	SD
7/16/77	JFK-CPH	398.	47	6:05	3:55	:20	.163	.268	.324	.277	47	. 344	-539	.610	38	.485	. 136
7/16/77	CPH-JFK	378.	53	6:50	5:25	2:20	.240	.348	.398	.352	54	.398	.564	.612	49	.615	.138
7/17/77	JFK-HND	379.	94	12:05	2:20		.075	. 140	.263	.211	88	.334	.518	.572	77	.253	.182 B
7/18/77	HND-LAX	382.	60	8:18	:58		.061	.117	.270	.130	60	.137	.230	.483	38	. 435	. 158
7/18/77	LAX-HND	377.	72	9:55	:50		.023	.056	. 132	.060	74	.083	. 144	.374	16	.467	.218 B
7/19/77	HND-JFK	380.	80	11:20	3:35		.070	.117	. 184	. 131	81	.223	.375	.552	70	.309	.140 B
7/28/77	JFK-HND	395.	84	11:00	8:45	3:30	-206	.315	. 415	.343	84	.309	.461	.540	69	.675	. 145
7/29/77	HND-LAX	386.	54	7:55	1:40		.053	. 105	.176	.114	55	.120	.220	.510	27	.492	.148
7/29/77	LAX-HND	387.	59	7:30	6:00	2:15	.205	.308	.374	.295	51	.322	.479	.530	43	.715	.183
7/30/77	HND-JFK	378.	89	11:52	3:50	:05	.086	. 174	.307	.208	90	.203	.347	.509	58	.402	.288 B
7/31/77	JFK-HND	391.	49	6:10	:45		.063	.111	.231	.106	50	. 151	.241	.462	33	.413	.177 B
8/ 1/77	HND-LAX	386.	68	9:13	2:40	:35	.089	. 173	.339	.206	70	.155	. 281	.504	43	.562	.156
8/ _1/77	LAX-HND	383.	77	9:37	3:20	:10	.085	<b>.</b> 157	.301	. 187	77	. 143	.258	.511	39	.583	. 163
8/ 2/77	HND-JFK	376.	88	11:33	4:22	:09	.094	. 157	.311	.150	88	.243	. 395	.518	67	.429	.271 B
8/ 3/77	JFK-HND	385.	95	4:03M	1:05		.068	.132	.255	.118	95	. 147	. 254	.505	67	.478	.133
8/ 4/77	HND-LAX	384.	51	6:55M	1:41		.065	.133	. 271	. 169	52	.124	.232	.419	25	.549	. 140
8/ 4/77	LAX-HND	375.	73	7:59M	:16		.030	.063	. 147	.070	73	. 106	.215	.460	19	.350	.118 B
8/ 5/77	HND-JFK	373.	83	6:03M	3:23		.108	. 179	.296	.176	85	.215	.355	.491	55	. 425	.193 B
8/ 6/77	JFK-CPH	403.	46	5:00M	3:02	: 15	. 151	.238	.335	.237	46	.330	.432	.481	45	.449	.191 B
8/ 6/77	CPH-JFK	382.	52	7:00	6:05	: 15	<b>. 1</b> 86	.260	.315	.262	54	.318	.428	.479	49	.573	.077
8/ 7/ <b>77</b>	JFK-SEA	352.	28	4:44			.002	.007	.022	.004	38	.119	.205	.314	11	.036	.053 P
8/ 8/7 <b>7</b>	SEA-HND	387.	6 <b>1</b>	8:35			.007	.020	.071	.019	64	.158	.315	.501	19	.074	.152 F
8/ 8/7 <i>7</i>	HND-JFK	381.	93	11:23			.009	.020	.052	.020	95	.202	.358	.506	49	.049	.050 F
8/ 9/77	JFK-CPH	350.	44	5:42			.006	.014	.033	.011	46	. 138	.233	<b>.</b> 423	22	.043	.044 F
8/ 9 <b>/77</b>	CPH-JFK	380.	22	7:20			.011	.023	· 044	.024	60	.210	. 341	. 495	20	070	.086 F
8 <b>/10/77</b>	JFK-CPH	402.	35	6:25			.018	.035	.064	.030	48	.240	.382	.502	30	.088	.088 F
8/10/77	CPH-JFK	378.	21	:00M					.080		37			. 465	10	.055	.036 F
8/11/77	JFK-SFO	390.	34	:00M					.075		40			. 154	11	.027	.044 F
8/11/77	SFO-AKL	373.	31	:00M					.059		86			.443	0		F
8/11/77	AKL-SYD	396.	18	1:21M			.005	.015	.032	.005	18	. 185	.230	. 246	18	.049	.048 F
8/12/77	SYD-AKL	359.	11	1:47			.014	.017	.021	.014	11	. 164	. 257	. 328	6	.069	.044 F
8/12/77	AKL-SPO	372.	75	11:03			.003	.009	.029	.008	83	.047	.085	.183	8	.010	.017 F
8/13/7 <i>7</i>	SFO-AKL	370.	0	:00							88	.050	.077	. 166	0		
8/13/77	AKL-SYD	371.	0	:00							11	. 298	.423	. 544	0		
8/14/77	SYD-SFO	380.	0	:00							86	.064	. 119	.282	0		

AIRCRAFT: N533PA (747SP)

SOURCE: GASP TAPE VL0010

APPENDIX C: PAGE 7 OF 11

DATE	ROUTE	PL	1		CABIN	OZONE-			1	A	MBIENT	OZONE		CABI	N/AMB	IENT	-1
			i	(H	OURS: MIN		PPM	V	1		1	-PPMV-	1	(FOI	AMB	>.1)	1
			ND	TOTAL	03>.1 03>.3	MEAN	M+SD	MAX	2HR	ND	MEAN	M+SD	MAX	ND	MEAN	SD	
8/14/77	SFO-JFK	402.	0	:00						26	.097	.152	.230	0			
8/16/77	JFK-HND	379.	ŏ	:00						94	. 196	342	.488	ŏ			
8/17/77	HND-LAX	386.	0	:00						61	.146	.270	.439	ŏ			
8/17/77	LAX-HND	371.	ñ	:00						74	. 134	.269	.469	Õ			
8/18/77	HND-JFK	382.	ŏ	:00						55	.266	.350	.426	0			
8/19/77	JFK-HND	381.	ő	:00						80	.219	.349	496	0			
8/20/77	HND-LAX	390.	Ŏ	:00						53	.092	. 154	.278	Ō			
8/20/77	LAX-HND	364.	ō	:00						69	.223	. 335	.429	0			
8/21/77	HND-JFK	372.	ō	:00						55	.260	.399	.495	0			
8/22/77	JFK-CPH	394.	Ō	:00						42	.275	.415	.497	Ō			
8/22/77	CPH-JFK	396.	0	:00						50	.336	.452	.503	0			
8/23/77	JFK-BAH	396.	0	:00						81	. 161	. 278	.465	0			
8/24/77	BAH-JFK	386.	0	:00						96	.216	.343	.429	0			
8/25/77	JFK-HND	380.	0	:00						94	. 179	.305	.436	0			
8/26/77	HND-LAX	382.	0	:00						51	.051	.093	.182	0			
8/26/77	LAX-HND	378.	0	:00						74	.137	.267	.408	0			
8/27/77	HND-JFK	361.	0	:00						67	. 123	.220	.382	0			
8/28/77	JFK-HND	384.	0	:00						92	.227	.331	. 453	0			
8/29/77	HND-LAX	389.	0	:00						58	.122	.217	. 354	0			
8/29/77	LAX-HND	382.	0	:00						71	.181	.314	.435	0			
8/30/77	HND-JFK	394.	0	:00						7.3	. 148	.247	.429	0			
8/3 <b>1/77</b>	JFK-HND	388.	0	:00						95	.233	.362	. 509	0			
9/ 1/77	HND-LAX	395.	0	:00						69	.138	-221	.382	0			
9/ 1/77	LAX-HND	396.	0	:00						82	.237	.376	.480	Ó			
9/ 2/77	HND-JFK	376.	0	:00						86	. 179	.286	- 401	0			
9/ 3/77	JFK-CPH	393.	0	:00						46	.240	.365	.455	0			
9/ 3/77	CPH-JFK	373.	0	:00						53	.316	. 453	.489	0			
9/ 4/77	JFK-CPH	392.	0	:00						46	.270	.382	.428	0			
9/ 4/77	CPH-JFK	399.	0	:00			- <b></b>			50	.362	.497	.528	0			
9/ 6/77	JFK-HND	387.	0	:00						99	.201	.314	.460	0			
9/ 7/77	HND-LAX	388.	0	:00						61	.130	.203	.355	0			
9/ 7/77	LAX-HND	383.	0	:00						74	.090	. 160	. 318	0			
9/ 8/77	HND-JFK	380.	0	:00						85	.207	.348	.477	0			
9/ 9/77	JFK-CPH	373.	0	:00						59	.220	.348	.421	0			
9/ 9/77	CPH-JFK	399.	0	:00						57	.295	.393	.484	0			

APPENDIX C; PAGE 8 OF 11

DATE	ROUTE	FL			CABIN								•			
		i	l		OURS: MIN						1		•		AMB	
			N D	TOTAL	03>.1 03>.3	MEAN	M+SD	MAX	2HR	йD	MEAN	M+SD	MAX	ИD	MEAN	SD
9/10/77	JFK-HND	378.	0	:00						93	. 166	.290	.426	0		
9/11/77	HND-LAX	387.	0	:00						72	.104	.197	.395	0		
9/11/77	LAX-HND	381.	0	:00						74	.093	. 171	. 374	0		
9/12/77	HND-JFK	382.	0	:00						74	.151	.289	.405	0		
9/13/77	JFK-HND	387.	0	:00						101	.236	.339	.448	0		
9/14/77	HND-LAX	397.	0	:00						68	.127	.220	. 346	0		
9/14/77	LAX-HND	390.	0	:00						71	.076	.095	. 154	0	<b></b>	
9/15/77	HND-JFK	376.	0	:00						79	. 166	.269	.359	0		
9/16/77	JFK-HND	378.	0	:00						102	.101	. 176	.343	0		
9/17/77	HND-LAX	410.	0	:00						2	.005	.011	.011	0		
9/20/77	JFK-HND	381.	0	:00						114	. 162	.302	.417	0		
9/21/77	HND-LAX	388.	0	:00						47	.098	. 175	.371	0		
9/23/77	JFK-HND	377.	0	:00						99	.172	.265	. 366	0		
9/24/77	HND-LAX	395.	0	:00						66	.108	.155	. 255	0		-
9/24/77	LAX-HND	373.	0	:00						63	.128	.222	.327	0		
9/25/77	HND-JFK	357.	0	:00						8 <b>7</b>	.140	<b>.</b> 225	. 409	0		
9/26/77	BOS~LHR	402.	0	:00						32	.286	.390	. 455	0		
9/26/7 <i>7</i>	LHR-BOS	395.	0	:00						42	.263	.353	.397	0		
9/2 <b>7/77</b>	BOS-LHR	401.	0	:00						36	. 178	.274	. 397	0		
9/27/77	LHR-BOS	396.	0	:00						45	-146	-209	.286	0		
9/2 <b>7/7</b> 7	BOS-DTW	381.	0	:00						5	. 141	. 172	- 224	0		
9/27/77	DTW-BOS	317.	0	:00						5	<b>.</b> 130	- 146	- 144	0		
9/28 <b>/77</b>	BOS-LHR	400.	0	:00						3 <b>1</b>	. 167	. 240	.362	0		
9/28/ <b>7</b> 7	LHR-JFK	394.	0	:00						49	.204	.289	.407	0		
9/28/77	JFK-SFO	416.	0	:00						34	-094	.117	.172	0		
9/29/77	SFO-AKL	380.	0	:00						80	.048	.089	.210	0		
9/29/77	AKL-SYD	362.	0	:00						13	.207	.330	.392	0		
9/30/77	SYD-AKL	389.	0	:00						15	. 134	.210	.320	0		
9/30/77	AKL-SFO	391.	0	:00						74	.056	. 106	. 334	0		
10/ 1/77	SFO-AKL	371.	0	:00						77	.057	.113	.380	0		
10/ 1/77	AKL-SYD	397.	0	:00						17	.326	.431	.509	0		
10/ 2/77	SYD-SFO	375.	0	:00						81	.060	.108	.213	0		
10/ 2/77	SFO-JFK	377.	0	:00						14	.092	.130	. 196	0		
10/ 3/77	JFK-HND	379.	0	:00						84	.205	.299	.442	0		
10/ 4/77	HND-LAX	397.	0	:00						65	. 139	.227	. 373	0		

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APPENDIX C; PAGE 9 OF 11

DATE	ROUTE	FL	1		CABIN	OZONE-				A	MBIENT	OZONE	1	CAB	IN/AME	IENT
			i		HOURS: MIN  -		PPM	٧			1	PPMV-	1	(FO:	R AMB	>.1)
			ND	TOTAL	03>.1 03>.3	MEAN	M+SD	MAX	2HR	N D	MEAN	M+SD	MAX	ND	MEAN	SD
										_				_		
10/ 4/77	LAX-SFO	323.	3	:20		.000	.000	.000	.000	3	.079	.087	.090	0		P
10/ 4/77	SFO-HND	381.	62	9:08		.016	.036	.068	.035	65	.079	.118	. 160	18	. 153	.162 F
10/ 5/77	HND-JFK	384.	8 <b>1</b>	11:05		.013	.029	.072	.019	85	. 193	.290	. 390	64	.058	.078 F
10/ 6/77	JFK-LHR	394.	39	5:04		.007	.016	.034	.009	40	.202	.275	.414	38	.036	.047 P
10/ <i>7/77</i>	LHR-BOS	398.	41	5:45		.009	.022	.046	.020	45	. 245	. 344	.425	40	.033	.040 F
10/ 7/77	BOS-DTW	363.	0	:00						6	.207	.311	.368	0		F
10/ 7/77	DTW-BOS	315.	3	:40		.000	.000	.000	.000	5	.061	.078	-089	0		F
10/ 8/77	BOS-LHR	401.	41	5:00		.007	.018	.055	.010	42	.226	.317	.442	41	.026	.036 F
10/ 8/77	LHR-BOS	383.	37	5:55		.016	.034	.085	.024	31	.263	.351	.388	22	.059	.061 F
10/ 8/77	BOS-DTW	350.	7	:50		.003	.007	.010	.003	9	. 138	. 193	. 224	6	.027	.031 F
10/ 9/77	BOS-LHR	395.	41	5:34		.030	.051	.085	.045	44	.275	.366	.457	38	. 114	.074 P
10/ 9/77	LHR-BOS	381.	41	5:30	:15	.020	.059	.225	.042	48	.260	.353	.413	35	.075	.119 F
10/10/77	BOS-LHR	401.	29	4:45		.006	.018	.044	.009	39	. 179	.293	.423	24	.017	.040 F
10/10/77	LHR-BOS	387.	38	5:53		.010	.026	.062	.022	49	. 142	.251	.434	27	.068	.089 F
10/10/77	BOS-DTW	348.	8	:55		.006	.017	.035	.006	9	. 105	. 137	.137	5	.009	.019 F
10/10/77	DTW-BOS	347.	3	:25		.000	.000	.000	.000	4	.101	.118	.119	1	.000	F
10/11/77	BOS-LHR	393.	35	4:43		.007	.013	.020	.010	35	. 167	.266	.345	21	.044	.034 F
10/11/77	LHR-BOS	422.	42	5:50		.015	.025	.041	.021	37	. 279	.378	.518	37	.073	.039 F
10/11/77	BOS-DTW	341.	5	:40		.000	.001	.001	.000	6	. 134	.176	.167	4	.001	.003 F
10/11/77	DTW-BOS	345.	3	:35		.004	.011	.017	.004	4	.101	.118	. 120	1	.000	F
10/12/77	BOS-LHR	393.	27	4:55		.006	.014	.034	.011	39	.131	.176	. 257	22	.028	.055 P
10/12/77	LHR-JFK	396.	49	6:45		.015	.035	.097	.029	51	. 190	.273	.429	45	.081	.094 F
10/12/77	JFK-SFO	375.	25	3:50		.007	.018	.047	.011	35	.120	.204	.326	11	.067	.054 F
10/13/77	SFO-AKL	368.	16	11:04		.003	.008	.023	.007	25	.049	.102	.411	3	.044	.062 F
10/13/77	AKL-SYD	376.	14	1:50		.002	.009	.026	.002	16	. 142	.182	. 248	12	.015	.037 F
10/14/77	SYD-AKL	378.	6	1:20		.007	.012	.020	.007	8	. 155	.229	.294	6	.052	.034 F
10/14/77	AKL-SFO	380.	55	11:02		.002	.011	.063	.007	74	.068	.160	.492	12	.009	.013 F
10/15/77	SFO-AKL	372.	43	10:59		.005	.014	.035	.012	8 <b>7</b>	.055	.095	. 151	14	.056	.082 F
10/15/77	AKL-SYD	417.	10	1:30		.006	.015	.029	.006	18	.456	.552	.604	10	.016	.022 F
10/16/77	SYD-SFO	379.	47	11:50		.004	.014	.040	.010	89	.048	.084	. 141	7	.128	.121 F
10/17/77	SFO-JFK	398.	23	4:00	:10	.005	.028	.113	.016	32	. 169	.304	.510	19	.046	.181 F
10/17/77	JFK-HND	388.	88	12:15	:05	.013	.033	.189	.024	95	.257	.383	.506	<b>7</b> 5	.057	.107 F
10/18/77	HND-LAX	385.	38	7:40	:05	.006	.026	.184	.011	50	. 124	.188	. 281	26	.063	.161 F
10/18/77	LAX-HND	389.	71	9:59	• • •	.012	.023	.044	.023	82	.249	.381	.454	6.3	.049	.038 F
10/19/77	HND-LAX	378.	51	7:08		.003	.008	.017	.004	58	.093	.138	. 252	18	.032	.036 F
10/19/77	LAX-HND	390.	81	10:46	:05	.026	.047	.130	.045	82	. 240	.388	.519	67	. 119	.140 F
10/20/77	HND-JFK	381.	71	10:45	.03	.016	.029	.063	.026	75	.177	.276	.401	57	.081	.047 F
10/20/11	TUD-OTK	.) 0 1 •	, 1	10.43		• 0 10	• 0 2 3	.003	• 02.0	, ,	• • • •	-210	3 701	٠,	- 001	

APPENDIX C; PAGE 10 OF 11

DATE	ROUTE	FL				CABIN	OZONE-			1	A	MBIENT	OZONE		CAB	IN/AMI	BIENT!
				1	HOURS:	1 I N I		PPI	1V	1		1	-PPMV-		(FO	R AMB	>.1) j
			ND	TOTAL	03>. 1	03>.3	MEAN	M+SD	MAX	2HR	ND	MEAN	M+SD	MAX	ND	MEAN	SD
10/28/77	SFO-LHR	385.		10:40	:06		.035	.057	.117	.058	68	.325	.440	.611	63	.105	.056 F
10/29/77	LHR-CPT	382.	66*	10:37	:16	:16	.045	.310	1.846	.243	67	.067	.098	. 167	9	.087	.093 F
10/29/77	CPT-AKL	381.	92*	13:25			.027	.045	.069	.052	93	.362	.572	,912	79	.071	.031 F
10/30/77	AKL-SFO	392.	54*	11:04			.003	.009	.053	.005	56	.041	.076	.155	6	.013	.022 F
11/15/77	JFK-FAI	367.	39	6:10			.008	.018	.034	.017	0				0		F
11/16/77	FAI-HND	409.	34	5:30			.001	.004	.011	.002	0				0		F
11/16/77	HND-LAX	393.	17	5:15			.000	.001	.005	.000	0				0		P
11/16/77	LAX-HND	385.	38	10:39			.003	.010	.034	.013	0				0		F
11/17/77	HND-JFK	368.	76	11:05			.010	.021	.050	.020	0				0		F
11/18/77	JFK-HND	381.	82	11:54			.017	.033	.068	.038	0				0		F
11/19/77	HND-LAX	393.	55	7:20			.002	.006	.017	.004	0				0		F
11/19/77	LAX-HND	385.	75	10:15			.019	.041	.078	.052	0				0		P
11/20/77	HND-JFK	369.	70	10:36			.011	.026	.064	.032	0				0		F
11/21/77	JFK-HND	382.	84	10:55			.012	.023	-040	.028	0				0		P
11/22/77	HND-LAX	395.	42	6:50			.004	.015	.053	.009	0				0		P
11/22/71	LAX-HND	393.	68	10:07			.006	.017	.069	.015	0				0		P
11/23/77	HND-JFK	375.	75	11:20			.009	.020	.054	.017	0				0		P
11/25/77	LAX-AKL	387.	14	3:40			.001	.003	.008	.002	0				0		F
11/25/77	AKL-SYD	432.	11	1:30			-004	.011	.019	.004	0				0		P
11/26/77	SYD-LAX	383.	16	11:26			.001	.008	.035	.017	0				0		P
11/27/77	LAX-AKL	376.	10	4:20			.000	-000	.000	.000	0				0		F
12/ 1/77	SFO-AKL	370.	70	11:02			.000	.002	.007	.002	0				0		F
12/ 1/77	AKL-SYD	415.	16	2:05			.002	.004	.006	.002	0				0		F
12/ 2/77	SYD-LAX	397.	1	:00			.000		.000	.000	0				0		P
12/ 3/77	LAX-AKL	377.	74	11:25			.002	.007	.033	.007	0				0		F
12/ 3/77	AKL-SYD	391.	15	2:10			.017	.037	.083	.017	0				0		F
12/ 4/77	SYD-MEL	357.	1	:00			-000		.000	.000	0				0		F
12/ 4/77	MEL-SYD	351.	1	:00			.000		.001	.000	0				0		F
12/ 4/77	SYD-LAX	382.	58	9:51			.002	.008	.037	.007	0				Ö		F
12/ 5/77	LAX-JFK	408.	20	2:31			.003	.006	.010	.003	0				0		F
12/22/77	JFK-LAX	372.	43	5:09			.007	.019	.095	.010	0				Ö		F
12/23/77	LAX-AKL	381.	80	12:41	:10		.006	.021	.121	.021	0				0		F
12/23/77	AKL-SYD	381.	17	1:60			.012	.017	.019	.012	ō				Ö		F
12/24/77	SYD-LAX	380.	85	11:59			.003	.008	.049	.006	ō				ō		F
12/25/77	LAX-AKL	381.	91	12:23			.003	.008	.022	.006	0				Ō		P

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SOURCE: GASP TAPE VL0014, FILE 1

AIRCRAFT: N533PA (747SP)

APPENDIX C; PAGE 11 OF 11

DATE	ROUTE	FL !			CABIN	OZONE-			1	A	MBIENT	OZONE-		CAB	IN/AMB	IENT!	
		i		1	HOURS: MIN		PPM	v	1		i	-PPMV		(FO	RAMB	>.1) [	
			N D	TOTAL	03>.1 03>.3	MEAN	M+SD	MAX	2HR	ND	MEAN	M+SD	MAX	N D	MEAN	SD	
12/25/77	AKL-SYD	405.	20	2:25		.015	.024	.030	.017	0				0		F	
12/26/77	SYD-AKL	390.	14	1:46		.007	.009	.010	.007	0				0		F	
12/26/77	AKL-LAX	381.	<b>7</b> 9	10:28		.003	.008	.031	.006	0				0		F	
12/27/77	LAX-AKL	364.	93	12:26		.002	.006	.011	.008	0				0		F	
12/27/77	AKL-SYD	358.	27	2:18		.003	.008	.021	.003	0				0		F	
12/28/77	SYD-AKL	388.	14	1:49		.005	.010	.015	.005	0				0		F	
12/28/77	AKL-LAX	376.	76	10:25		.004	.009	.037	.006	0				0		F	
12/28/77	LAX-SFO	293.	2	:10		.000	.000	.000	.000	0				0		F	
12/29/77	SFO-AKL	373.	91	11:60		.007	.018	.080	.016	0				0		F	
12/29/77	AKL-SYD	405.	16	2:16		.008	.016	.027	.009	0				0		F	
12/30/77	SYD-AKL	368.	12	1:45		.003	.008	.012	.003	0				0		F	
12/30/77	AKL-LAX	387.	80	10:54		.004	.009	.036	.007	0				0		F	
12/31/77	LAX-AKL	384.	89	11:15		.003	.009	.036	.007	0				0		F	
12/31/77	AKL-SYD	411.	13	2:05		.005	.009	.018	.005	0				0		F	
1/ 1/78	SYD-MEL	350.	3	:20		.003	.007	.009	.003	0				0		F	
1/ 1/78	MEL-SYD	362.	3	:23		.003	.006	.008	.003	0				0		F	
1/ 1/78	SYD-LAX	375.	96	12:13		-005	.010	.044	.007	0				0		F	
1/ 2/78	LAX-JFK	394.	26	3:32		.012	.023	.073	.013	0				0		F	
1/ 3/78	JFK-BAH	382.	8 <b>3</b>	10:44	:05	.023	.045	.106	.040	0				0		F	

<sup>\*</sup> PAN AM 50TH ANNIVERSARY FLIGHTS (TAPE VL0009); DATA SELECTED AT 5 MIN INTERVALS FROM CONTINUOUS RECORDING

## APPENDIX D

SUMMARY TABULATIONS OF

GASP OZONE DATA

FOR BOEING 747-100 (N4711U)

APPENDIX D; PAGE 1 OF 4

DATE	ROUTE	FL	J			-CABIN	OZONE-			1	A	MBIENT	OZON	E1	CAB	IN/AMI	BIENT
			ĺ	H	OURS: MI	N j		PPM	V			1	-PPMV	i	(FO	R AMB	>.1) i
			ND	TOTAL	03>. 1	03>.3	MEAN	M+SD	MAX	2HR	ND	MEAN	M+SD	MAX	ND	MEAN	SD
1/ 3/77	SFO-HNL	356.	0	:00							34	.083	.139	- 173	0		
1/ 4/77	HNL-SFO	363.	0	:00							28	.087	.163	. 292	Ô		
1/ 4/77	SFO-JFK	361.	ő	:00					~ ~ ~		28	241	.324	408	ő		
1/ 5/77	JFK-SFO	366.	ŏ	:00							32	.298	.352	.407	ŏ		
3/19/77	SFO-JFK	386.	0	:00							27	.297	.467	.654	0		
3/20/77	JFK-SFO	363.	0	:00							37	.598	.881	• 972	0		
3/20/77	SFO-HNL	342.	0	:00							32	. 104	. 140	. 180	0		
3/21/77	HNL-SFO	363.	0	:00							29	.160	.221	.312	0		
3/22/77	SFO-HNL	352.	0	:00							24	. 141	.208	. 281	0		
3/22/77	HNL-SFO	364.	0	:00							11	. 148	. 245	.290	0		
3/23/77	SFO-JFK	362.	0	:00							30	.299	<b>.</b> 530	.849	0		<del></del>
3/24/77	JFK-SFO	371.	0	:00							35	. 318	.475	<b>.</b> 577	0		
3/24/77	SFO-HNL	356.	0	:00							29	. 151	.314	-641	0		
3/25/77	HNL-LAX	356.	0	:00							55	.249	.485	.902	0		
3/25/77	LAX-ORD	352.	0	:00							18	.270	.466	.688	0		
3/25/77	ORD-SFO	367.	0	:00							23	.535	.862	.909	0		
3/26/77	SFO-ORD	348.	22	2:44	:05		.048	-072	.125	.057	0				0		
3/27/77	ORD-LAX	382.	28	3:06	:20		.059	.085	. 120	.071	0				0		
3/27/77	LAX-JFK	366.	30	3:43			.034	.053	.081	.046	0				0		
3/28/77	JFK-LAX	377.	37	4:31	2:51		.093	. 144	.192	.135	0				0		
3/29/77	LAX-SEA	371.	12	1:36	:29		.068	. 120	.168	.068	0				0		
3/29/77	SEA-ORD	359.	21	2:32	1:16		.084	. 134	. 164	.087	0				0		
3/29/77	ORD-LAX	374.	24	3:02	2:05		.106	.141	.188	.107	0				0		
3/30/77	LAX-JFK	372.	28	3:28			.038	.056	.092	.045	28	.091	.114	. 131	12	.378	.129
3/31/77	JFK-LAX	370.	42	5:11	3:31	: 45	.159	. 255	.377	. 221	42	.335	.580	.854	29	.508	.233
۵, ۵ ۱, 7 .	0111 21111	3,44		J	•••	•	•		• • • •			• 000	•	• • • • • • • • • • • • • • • • • • • •		• • • • •	. 233
4/ 1/77	LAX-SEA	365.	11	1:28	1:18	: 13	.262	.321	.323	.262	10	.691	.742	.765	10	.389	.063
4/ 1/77	SEA-ORD	355.	17	2:25	2:15	1:25	,288	.380	.395	.324	18	.605	841	.851	15	.471	.143
4/ 1/77	ORD-LAX	381.	25	3:10	2:45	1:20	.246	.349	.375	.305	25	.644	.923	.991	24	.374	.069
4/ 1/17	LAX-JFK	342.	29	3:46	2:40	1.20	.171	.249	.296	.234	29	.421	.709	.807	24 26	.472	. 253
4/ 3/77		370.	34	4:41	4:16	:55	.216	.312	.411	.302	35	.605	.876	1.044	33	.363	.067
, ,	JFK-LAX					: 23											
4/ 4/77	LAX-HNL	352.	31	4:02	:15		.052	.078	.145	.063	32	.092	. 115	.151	14	459	. 156
4/ 4/77	HNL-SFO	357.	23	3:40			.048	•069	.099	.053	23	. 104	. 144	. 223	11	. 365	. 132
4/ 5/77	HNL-SFO	359.	29	3:50			.054	.073	.095	.058	29	.122	. 146	.171	24	.438	. 147

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SOURCE: GASP TAPE VL0012 APPENDIX D: PAGE 2 OF 4

DATE	ROUTE	FL				CABIN	OZONE-			1	A	MBIENT	OZONE		CAB	IN/AMI	BIENT
		- 1		1H				PPM	V			1	-PPMV-		(FO	R AMB	>.1)
			ND	TOTAL	03>. 1	03>.3	MEAN	M+SD	MAX	2HR	ND	MEAN	M+SD	MAX	ND	MEAN	SD
4/ 6/77	SFO-ORD	368.	22	2:41	:25		.077	. 114	. 171	.074	22	.181	.275	.386	16	.474	.295
4/ 7/77	ORD-LAX	370.	22	2:45	:55	: 10	. 106	.191	.377	.126	22	. 143	.199	-238	17	.544	.319
4/ 7/77	LAX-JFK	381.	28	3:45	2:25	:30	. 145	.236	•369	.205	30	.320	.493	.678	28	.473	.167
4/ 8/77	JFK-LAX	370.	32	4:25	2:25	:30	. 139	.233	.322	. 221	32	.319	.530	.746	29	.438	.116
4/ 9/77	LAX-SEA	371.	9	1:00	:50		.132	.192	.237	.132	9	.408	.627	. 834	9	.358	. 128
4/ 9/17	SEA-ORD	384.	20	2:34	1:15	:30	<b>-</b> 154	.263	.389	.169	20	.287	.483	.723	18	.508	. 172
4/ 9/77	ORD-LAX	375.	22	2:50	:34		.076	.106	.126	.087	22	.159	.226	.299	17	.462	.131
4/10/77	LAX-HNL	387.	30	4:25	1:55		.097	.158	.217	.133	31	. 187	.313	.561	21	.557	.266
4/10/77	HNL-SFO	356.	17	3:42			.052	-074	.089	.054	17	. 127	-174	. 224	9	.347	.105
4/11/77	SFO-HNL	390.	28	4:10	1:10		.082	. 117	.154	.086	2 <b>7</b>	.163	.240	.330	22	.496	.158
4/11/77	HNL-SFO	360.	27	3:45	:10		.043	.070	.127	.060	27	.100	.151	.239	7	. 428	. 324
4/11/77	SFO-ORD	368.	23	2:52	1:57		. 147	.216	.266	.173	23	.321	.456	.539	21	.451	. 109
4/12/77	ORD-LAX	391.	25	2:55	2:05	:25	.181	. 279	.372	.238	25	.447	.723	.868	22	. 454	.170
4/12/77	LAX-JFK	364.	31	3:54	1:05		.078	. 133	. 237	<b>.</b> 106	31	.160	.274	.544	17	.459	.130
4/13/77	JFK-LAX	367.	33	4:20	:30		.067	.097	.163	.085	3.3	. 148	.245	.471	21	.430	. 104
4/14/77	LAX-HNL	354.	32	4:06	:10		.060	.086	. 143	.069	33	.081	.100	. 120	7	.627	.337
4/14/77	HNL-SPO	361.	32	3:55	:15		.045	.069	.132	.049	32	.090	.112	. 133	12	.464	.233
4/15/77	SFO-HNL	344.	31	4:01			.036	.046	.063	.038	31	.079	.099	.112	5	.343	.051
4/15/77	HNL-SFO	363.	30	3:36	:04		.043	.060	.112	.046	30	.090	.103	.118	7	.462	. 180
4/15/77	SFO-ORD	358.	22	2:50	:55		.090	.132	.192	.102	22	.184	.308	.639	14	.465	.235
4/16/77	ORD-LAX	383.	22	2:45	1:46		- 112	. 154	.230	.127	12	. 164	.248	.370	9	.586	. 214
4/16/77	LAX-HNL	345.	33	4:15			.034	.048	.078	.036	33	.076	.092	.105	1	.333	
4/17/77	HNL-SFO	361.	14	1:40			.041	.058	.076	. 04 1	14	.082	.095	.096	0		
4/19/77	SFO-HNL	356.	36	4:25	:45		.075	. 138	. 264	.111	36	. 144	.273	.528	11	.461	. 164
4/20/77	HNL-LAX	370.	28	3:35	:10		.055	.081	. 127	.064	29	.098	-150	.228	11	.501	.149
4/20/77	LAX-JFK	360.	29	3:50	1:15		.087	. 139	241	.122	30	.188	.328	.588	19	.481	.176
4/21/77	JFK-LAX	370.	33	4:06	1:35		.106	. 162	.251	- 140	3.3	.202	.407	.683	16	. 444	. 283
4/22/77	LAX-HNL	348.	35	4:24	:30		.059	.088	. 148	.063	27	.099	. 148	. 343	9	.463	. 118
4/22/77	HNL-LAS	353.	35	4:20			.030	-048	.090	.044	35	.079	.121	.208	9	.370	.088
4/22/77	LAS-LAX	227.	1	:00			.017		.017	.017	1	.046		.046	0		
4/22/77	LAX-JFK	359.	30	3:50	:20		.053	.091	.219	.071	30	.128	. 241	.465	14	.380	. 152
4/23/77	JFK-LAX	367.	21	4:15	1:45		.088	. 128	.182	.108	21	.215	.347	.495	18	.396	.253
4/24/77	LAX-HNL	354.	32	4:16	1:01		.062	.099	.169	.087	33	. 137	.253	.396	10	.299	.116
4/24/77	HNL-LAX	335.	2 <b>7</b>	3:45	:25		.047	.079	.127	.064	27	.100	.178	.298	6	.365	.047
4/24/77	LAX-ORD	345.	8	2:40	1:10		. 102	. 169	.202	.129	8	.301	•596	.750	4	.395	.156

SOURCE: GASP TAPE VL0012

APPENDIX D; PAGE 3 OF 4

DATE	ROUTE	FL															BIENT
		ł		1H		•						•		1		R AMB	
			ND	TOTAL	03>.1	03>.3	MEAN	M+SD	MAX	2HR	ND	MEAN	M+SD	MAX	ND	MEAN	SD
4/24/17	ORD-LAX	378.	5	1:15	1:11		. 139	.183	. 191	. 139	5	.265	.317	.313	5	.480	.099
4/25/77	LAX-HNL	353.	37	4:45	:10		.046	.077	.182	.054	38	.069	.088	.110	2	.395	.014
4/26/77	HNL-SFO	358.	27	3:25	:39		.064	.094	.126	.081	2 <b>7</b>	.085	.135	. 199	9	.630	.202
4/26/77	SFO-HNL	353.	28	4:30			.055	.072	.098	.062	36	.121	.165	.205	14	.482	.085
4/26/77	HNL-LAX	368.	28	3:40	1:35	:10	.108	-181	.458	.138	28	.212	.270	.308	26	.520	.317
4/27/77	LAX-HNL	354.	3.3	4:35			.055	.071	.097	.065	29	.108	.132	. 164	15	.439	.092
4/27/77	HNL-SFO	360.	2 <b>7</b>	3:23	: 44		.073	.119	. 193	.094	27	.147	.239	.365	12	.489	. 137
4/28/77	SFO-ORD	353.	21	2:40	:10		.061	.082	.106	.068	2 <b>1</b>	. 116	.168	.278	12	-510	.105
4/29/77	ORD-SEA	384.	24	2:60	1:60	: 10	<b>. 1</b> 28	. 197	.320	.145	24	.284	.413	.575	2.3	.449	.115
4/29/77	SEA-ORD	373.	18	2:20	1:20		.101	. 133	. 151	.101	19	.233	.323	. 419	16	.456	. 153
4/29/77	ORD-SFO	376.	22	3:10	:15		•d65	.099	.141	.084	22	.141	.203	.250	13	. 457	. 144
4/30/77	SFO-JFK	381.	29	3:55	2:05		.118	. 194	.293	. 169	29	.234	.381	. 496	20	.542	.324
5/ 1/77	JFK-SFO	359.	34	4:25	1:30	: 05	.102	.183	.316	.178	34	.218	.410	.622	17	.450	.148
5/ 1/77	SFO-HNL	367.	25	3:50	1:40		.091	. 145	. 190	. 133	26	. 165	.276	.416	13	.531	. 159
5/ 2/ <b>7</b> 7	HNL-SFO	359.	32	4:10	: 15		.048	.065	.109	.054	32	.089	.122	. 176	5	.417	.102
5/ 3/77	SFO-ORD	352.	17	2:45	:40		.086	. 133	.211	.107	17	.183	.282	_446	13	.487	<b>. 1</b> 38
5/ 4/77	ORD-SEA	382.	14	2:36	2:36	:21	. 199	.268	.308	.230	14	.401	.519	.631	14	.530	.259
5/ 4/77	ORD-LAX	395.	23	3:01	:53		.096	.163	.286	.110	22	.161	.285	.520	13	.604	.226
5/31/77	SFO-HNL	381.	28	3:55			.030	.043	.052	•036	28	.067	.086	. 107	1	-290	
6/10/77	JFK-LAX	370.	20	3:04	:50		.092	.130	. 194	.105	28	.135	.216	.329	11	.706	.318
6/10/77	LAX-HNL	351.	20	4:09	: 14		.054	.078	.110	.064	20	.066	.093	.116	2	.412	.028
6/11/77	LAX-ORD	352.	18	2:30	:40		.085	.120	.173	.091	18	. 154	.253	. 396	13	.542	.322
6/12/77	ORD-SEA	393.	7	:55	:55		.226	. 249	.256	. 226	7	.447	.509	.508	7	.536	.113
6/12/77	SEA-ORD	344.	7	2:10	:05		.065	.094	.106	.071	7	. 139	-212	. 241	4	.387	. 128
6/12/77	ORD-HNL	378.	15	2:00			.043	.054	.062	.043	0				0		
6/13/77	HNL-SFO	361.	10	1:20	:40		.112	. 176	.267	.112	10	. 227	.371	.481	7	.451	. 102
6/14/77	SFO-HNL	345.	15	4:04	:47		.078	.140	.204	.100	0				0		
6/14/77	SFO-HNL	351.	16	3:23	:50		.071	- 100	.131	.079	0				0		
6/14/77	HNL-LAX	351.	7	:50			.043	.046	.049	.043	0				0		
6/15/77	LAX-JFK	370.	21	2:53	:35		.057	.080	.112	.065	0				0		

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APPENDIX D; PAGE 4 OF 4

DATE	POUTE	PL	ı ·		<b></b>	-CABIN	OZONE-				A	MBIENT	OZONI	g1	CAB	IN/AMB	IENT!	ı
			1	1	HOURS: M	IN1		PPM	v		l	1	-PPMV-		(FO	R AMB	>.1)	i
			ND	TOTAL	03>.1	03>.3	MEAN	M+SD	MAX	2HR	N D	MEAN	M+SD	MAX	ND	MEAN	SD	
11/ 9/77	LAX-JFK	361.	29	3:35	:15		.044	.076	.190	.058	0				0			
11/10/77	JFK-LAX	381.	29	4:18	:10		.028	.058	. 101	.052	Ō				0			
11/10/77	LAX-HNL	344.	37	4:35	:20		.037	.066	.131	.058	0				0			
11/11/77	HNL-SFO	370.	27	3:33			.035	.055	.090	.036	0				0			
11/11/77	SFO-JFK	378.	32	3:50	1:35		.087	. 155	.234	.133	0				0			
11/12/77	JFK-ORD	366.	9	1:00	1:00		.180	.220	.233	.180	0				0			
11/12/77	ORD-LAX	370.	2.3	2:50			.038	.054	.076	.038	0				0			
11/12/77	LAX-ITO	360.	33	4:20			.026	.041	.058	.031	0				0			
11/13/77	ITO-LAX	360.	26	3:30			.032	.048	.075	.037	0				0			
11/13/77	LAX-ORD	353 <b>.</b>	20	2:30			.038	.094	.096	.044	0				0			
11/13/77	ORD-LAX	365.	25	3:00	:05		.044	.066	.113	.046	0				0			
11/14/77	LAX-HNL	369.	29	4:01			.040	.056	.070	.050	0				0			
11/14/77	HNL-SFO	362.	29	3:46			.026	.037	-044	.032	0				0			
ALL OBSE	RVATIONS	2	2320	315:03	80:37	7:30	.080	. 152	.458	.324	2199	.205	.400	1.044	941	.465	.201	